

19. GREY FLAKY LIMESTONE.								Calcareus Squammosus Griseus Cronstedt.
Thin strata	tender	heavy	smooth	DUSKY GREY	coarse scales	Germany	lime.	
20. SILVERY FLAKY LIMESTONE.								Calcareus Albus Dalarnefis Cronstedt.
Small lumps	very hard	heavy	polished	PURE WHITE	close, small scales	Sweden	lime.	
21. RED FLAKY LIMESTONE.								Calcareus Ruber Cronstedt.
Great strata	tender	very heavy	uneven	RUDDY	large scales	Germany	lime.	
22. CLOUDED FLAKY LIMESTONE.								Calcareus Variegatus Cronstedt.
Thick strata	hard	heavy	rugged	GREY, RED, AND WHITE	small scales	Sweden	lime.	

If there can be a distinction between Limestone, and Marble, this twenty-second kind is the connecting link: 'tis either the coarsest of the Marbles, or the finest of the Limestones.

COMPOUND FOSSILS.

2. MARBLES.

Sparry Stones, bright, and glittering.

1. OF ONE COLOUR.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. PARIAN MARBLE.							
Vast blocks	tender	heavy	wrinkled	PURE WHITE	glittering	Paros	Marmor Nobile Album. L. for statues.
2. CARRARA MARBLE.							
Great masses	hard	heavy	smooth	GOOD WHITE	clear	Italy	Marmor Lunense. H. statues.

3. GREY MARBLE.

Thick strata

very hard

heavy

irregular

DUSKY
GREYfinells like
horn,
when
burnt

Hildesheim

Marmor
Palumbinum.
W.

ornaments.

4. YELLOW MARBLE.

Vast strata

very hard

heavy

rugged

PALE
YELLOW

sparkling

Italy

Marmor
Terebinthinatum
Catalp.

ornaments.

5. RED MARBLE.

Great blocks

hard

heavy

irregular

DULL RED

opaque

Italy

Marmor
Rufum.
L.

ornament.

6. BLUE MARBLE.

Thick beds

very hard

very
heavy

wrinkled

DUSKY
BLUEhigh
polish

Spain

Marmor
Numidium.
H.

monuments.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
7. GREEN MARBLE.							
Broken strata	tender	light	smooth	GREEN	cloudy	England	Marmor Lacedemonium. H. ornaments.
8. SPARKLING BLACK MARBLE.							
Vast strata	very hard	heavy	granulated	BRIGHT BLACK	glittering	Italy	Marmor Luculleum. H. for tombs.
9. DULL BLACK MARBLE.							
Great blocks	tender	very heavy	smooth	DEAD BLACK	a touch- stone	Italy	Marmor Chium. H. monuments.
10. BROWN MARBLE.							
Thick strata	soft	light	irregular	UMBER- COLOUR	dull	Italy	Marmor Lividum. W. ornaments.

2. SHELLY MARBLES.

II. GREY SHELLY MARBLE.

Vast strata	tender	heavy	wrinkled	WHITE	grey veins, and small shells	Italy	chimney-pieces.
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Marmor Venosum
Album Agric.

12. GREY ENTROCHINE MARBLE.

Immenſe blocks	hard	heavy	moſt irregular	GREY	foſſil, en- trochi, and ſhells	Derbyſhire	chimnies.
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Marmor
Derbienne.
H.

13. GREEN SHELLY MARBLE.

Great beds	tender	very heavy	uneven	DULL GREEN	ſhells with white ſpar	Bohemia	ornaments.
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Marmor
Vireſcens.
H.

14. GREY GREEN SHELLY MARBLE.

Deep ſtrata	tender	light	rugged	GREYISH GREEN	black and white ſhells	Suffex	ornaments.
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Marmor
Cinereovirens.
H.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
15. BLACK SHELLY MARBLE.							
Great blocks	hard	heavy	rumpled	DEEP BLACK	white shells	Ireland	Marmor Nigerrimum. H. tombs.
16. BLACK CORALLOIDE MARBLE.							
Thick strata	hard	very heavy	uneven	GREYISH BLACK	feathery coralloides	Derbyshire	Marmor Coralliticum. H. ornaments.
3. V A R I E G A T E D M A R B L E S.							
17. WHITE AND GREY MARBLE.							
Vast strata	tender	heavy	irregular	GOOD WHITE	blueish grey veins	Italy	Marmor Albocæruleum. H. ornaments.
18. PURPLE AND WHITE MARBLE.							
Deep strata	hard	very heavy	cracked	WHITE, AND PURPLE	blotch'd	Italy	Marmor Albopurpureum. H. ornaments.

19. BROWN AND WHITE MARBLE.

Thick strata	soft	light	smooth	BROWN, AND WHITE	blotches. scratch'd by a pin
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Italy

Marmor
Albofuscum.
H.
ornaments.

20. RED AND WHITE MARBLE.

Vast strata	very hard	very heavy	irregular	PALE RED, AND WHITE	veined
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Italy

Marmor
Albarubescens.
H.
chimney-pieces.

21. BLUE AND WHITE MARBLE.

Great strata	soft	light	rugged	BLUEISH, AND WHITE	in blotches
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Italy

Marmor
Alboceruleum.
H.
ornaments.

22. BROWN RED AND WHITE MARBLE.

Great blocks	hard	heavy	irregular	THREE- COLOUR'D	veins and blotches
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Italy

Marmor
Pallidifuscum. V.
H.
ornament.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
23. BROWN BLACK AND WHITE MARBLE.							
Great strata	tender	heavy	crack'd	THREE-COLOUR'D	veins and blotches	Italy	Marmor Fuscum Nigrovariegatum. H. ornaments.
24. BROWN AND WHITE MARBLE.							
Great blocks	very hard	very heavy	smooth	BROWN	white blotches	Italy	Marmor Fusco- albidum. H. ornaments.
25. SYENNA MARBLE.							
Vast blocks	tender	heavy	shattery	YELLOW, WITH	purple spots and blotches	Italy	Marmor Flavopurpureum. H. ornaments.
26. AFRICAN MARBLE.							
Great strata	hard	very heavy	irregular	YELLOW, WITH	deep blue spots	Africa, and Spain	Marmor Flavoceruleum. H. chimney-pieces.

27. BROCATELLO MARBLE.

Thin strata	tender	very heavy	undulated	DEEP YELLOW, WITH	red and white veins	Spain	Marmor Portafancta. W. ornaments.
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28. BLACK AND WHITE MARBLE.

Vast strata	very hard	heavy	rugged	BLACK, WITH	narrow white veins	Italy	Marmor Nigro- album. H. tombs.
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29. BLACK AND GOLD MARBLE.

Thick strata	hard	very heavy	irregular	FINE BLACK	yellow veins	Italy	Marmor Nigro- luteum. H. ornaments.
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30. BLACK AND RED MARBLE.

Great blocks	hard	heavy	smooth	GOOD BLACK	red and white veins	Ireland	Marmor Nigro- rubens. H. chimney-pieces.
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FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
31. BLACK BROCADE MARBLE.							
Thick strata	tender	heavy	rugged	FINE BLACK	red, white, and yellow veins	Derbyshire	Marmor Nigrum Variegatum. H. ornaments.
32. AUGUSTAN MARBLE.							
Thick masses	firm	very heavy	rugged	LIGHT GREEN	white veins and talc	Ægypt	Marmor Viride Album. H. ornaments.
33. BLACK SERPENTINE MARBLE.							
Great lumps	hard	heavy	irregular	DEEP GREEN	black and white spots	Africa	Marmor Ophites Niger. H. ornaments.
34. WHITE SERPENTINE MARBLE.							
Great lumps	soft	light	rugged	LIGHT GREEN	white, and some black spots	Ægypt	Marmor Ophites Album. H. ornaments.

35. GREY AND BLACK MARBLE.

Large masses	very hard	heavy	irregular
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ASHY GREY

black spots

Africa

Marmor Ophites Cisereus. H.

ornaments.

36. ARABIAN MARBLE.

Great lumps	hard	heavy	undulated
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BROWNISH GREY

oblong, green spots

Arabia

Marmor Fusco- virens, H.

ornaments.

37. GREEN VEIN'D MARBLE.

Large masses	hard	very heavy	irregular
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LIGHT GREY

green veins, and spots

Germany, Cornwall

Marmor Cinereo- virens. H.

ornaments.

38. RED AND GOLD MARBLE.

Great strata	hard	heavy	rugged
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GOOD RED

gold and white veins

Italy

Marmor Thebaicum. H.

ornaments.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
39. ONYX MARBLE.							
Small masses	hard	light	in broken beds	BROWN	blue, black, white, in beds	Germany	Marmor Polyzonias. W. snuff-boxes.
40. FLORENTINE MARBLE.							
Great masses	tender	heavy	rugged	YELLOWISH BROWN	rude figures in black	Italy, Arabia	Marmor Florentinum. L. ornaments.
41. DENDRITE MARBLE.							
Great lumps	hard	heavy	rough	PALE BROWN	inocoa figures in black	Hesse	Marmor Haffiscum. W. ornaments.
4. DEBASED MARBLES.							
42. SLATE MARBLE.							
Thick strata	tender	heavy	plated	WHITISH YELLOW	fissile	Germany	Marmor Fissile. L. ornaments.

43. L I M E M A R B L E.

Thick strata

soft

heavy

plated

BLACK

shattery

Sweden

for lime.

Marmor
Schistofum.
L.

44. C R Y S T A L L I N E M A R B L E.

K
K
N

Great lumps

very hard

heavy

granulated

PURE
WHITEalmost
transpa-
rent

Sweden

ornaments.

Marmor
Tardum.
L.

45. C H A F F Y M A R B L E.

Great lumps

tender

heavy

streaky

SNOW
WHITEbright
and chaf-
fy, when
broke

Lapland

ornaments.

Marmor
Acerosum.
L.

46. C L A Y M A R B L E.

Vaſt ſtrata

ſoft

heavy

crack'd

RUDDY

full of
ſhells and
ætitæ

Sweden

ornaments.

Marmor
Stratarium.
L.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
47. SANDY MARBLE.							
Great strata	soft	heavy	irregular	BROWNISH WHITE	full of sand and clay	France	building. Marmor Scittile L.

S T O N E S.

O R D E R IV.

C O N C R E T E S.

Composed of various matters, rudely mixt together.

I. P O R P H Y R Y S.

Composed of Jasper, Crystal, and Shirl.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
1. PURPLE AND WHITE PORPHYRY.							
Vast rocks	very hard	very heavy	rugged	DEEP PURPLE	small white specks	Ægypt	<div>Saxum Porphyrius γ. L.</div> ornaments.
2. BROWN RED AND WHITE PORPHYRY.							
Great rocks	very hard	heavy	granulated	DEEP BROWN	purple and white spots	Sweden	<div>Saxum Porphyrius. L.</div> ornaments.
3. BLACK AND RED PORPHYRY.							
Thick strata	very hard	heavy	irregular	BLACKISH	spots of deep red	Arabia	<div>Saxum Porphyrius α. L.</div> ornaments.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
4. BLACK RED AND WHITE PORPHYRY.			ragged	DEEP BLACK	spots of red and white	Ægypt	Saxum Porphyrius β. L. ornament.
Vast blocks	very hard	heavy					
5. GRAY AND BLACK PORPHYRY.			uneven	RAVEN GREY	spots of deep black	Syria	Saxum Porphyrius α. L. ornaments.
Great masses	very hard	heavy					
6. GREEN AND WHITE PORPHYRY.			rugged	PALE GREEN	white spots	Germany	Saxum Porphyrius δ. L. ornaments.
Vast rocks	very hard	heavy					
7. MINORCAN PORPHYRY.			granulated	BRIGHT RED	green, white, and black spots	island of Minorca	Porphyrius Miniaceus. H. worthy the first uses.
Great masses	most hard	very heavy					

8. ROSE PORPHYRY.

Vast blocks	very hard	heavy	most rugged	ROSE COLOUR	black, green, white spots	upper Ægypt	for ornaments.	Porphyrius Carneus. H.
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9. GREY AND WHITE PORPHYRY.

Rounded lumps	hard	heavy	very smooth	DARK GREY	white spots	Sweden	for ornaments.	Porphyrius Griseus Cronstedt.
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2. GRANITE S.

Composed of Jasper, Crystal, and Talc.

1. RED AND BLACK GRANITE.

Immenſe rocks	very hard	heavy	rugged	FINE RED	black spots	Ægypt	ornaments.	Granita Rubra. H.
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2. BLACK RED AND WHITE GRANITE.

Vast rocks	most hard	heavy	irregular	MIXT BLACK AND RED	white spots	Arabia	obelisks.	Granites Pyropæilos. H.
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FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USE.
3. GREEN RED AND WHITE GRANITE.							Saxum Granites Chinense. L.
Great masses	hard	heavy	rugged	GREEN AND RED	white spots	China	ornaments.
4. MOORSTONE GRANITE.							Granita Albo- nigra. H.
Great lumps	very hard	heavy	most rugged	WHITE	black spots	Cornwall	curbs and steps in building.
5. GOLDEN GRANITE.							Granites Luteoniger. H.
Great lumps	hard	heavy	rugged	FLESH COLOUR'D	white, black, and gold spots	Minorca	fit for the best uses.
6. LOOSE GRANITE.							Granites Friabilis Cronstedts.
Crumbly masses	harsh	heavy	irregular	RUDDY	white and black spots	Sweden	for melting furnaces.

3. T R A P E S T O N E S.

Composed of Jasper, Clay, and Slate; with some Iron.

1. GREY CHAFFY TRAPESTONE.								Trapskiol Grisea Cronstedt.
Flat cakes	hard	heavy	flaty	RAVEN GREY	spotted whitish	Sweden	glas bottles.	
2. BLACKISH CHAFFY TRAPESTONE.								Trapskiol Nigra Cronstedt.
Vast rocks	hard	very heavy	bed upon bed	BLACK	blackier spots	Delarne		
3. ASHY SAND TRAPESTONE.								Trapskiol Cinerea Cronstedt.
Thick strata	brittle	heavy	granulated	ASH COLOUR'D	dark spots	Sweden	bottles.	
4. BROWN TRAPESTONE.								Trapskiol Fusca Cronstedt.
Whole rocks	hard	heavy	gritty	DEEP BROWN	whitish specks	Sweden	bottles.	

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
5. RUDDY TRAPESTONE.							
Serpentine veins	very hard	very heavy	coarse, and rough	RUDDY	brown spots	Norway	Trapiskiol Rufa Cronstedt. coarse glass.
6. WHITISH TRAPESTONE.							
Vast strata	tender	heavy	smooth	WHITISH	white specks	faintly striated	Trapiskiol Sorberkenia Cronstedt. glass.
7. BLUE TRAPESTONE.							
Rocks	hard	very heavy	even	DEAD BLUEISH	unspotted	uniform	Trapiskiol Ceruleus Cronstedt. good glass.
8. BLACK FINE TRAPESTONE.							
Veins in rocks	hard	heavy	smooth	DEEP BLACK	unspotted	close	Trapiskiol Nigra Cronstedt. touchstone.

The Trapestones have all a tendency to split like Slate ; and to break into a kind of large dice, when shattered by a perpendicular blow : they do not always form whole rocks ; but make thick veins in their uneven cracks. They are usually found with various mixtures, and all contain some iron.

S T O N E S .

O R D E R V.

Q U A R R Y S T O N E S .

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. LAPLAND QUARRY STONE.							
Rocks	hard	heavy	raised in small lumps	REDDISH	white spots.	Lapland	Saxum Laponicum. L.
28. DANNEMORE QUARRY STONE.							
Thick strata	very hard	heavy	irregular	BLUEISH	transparent, in thin pieces	Dannemore	Saxum Dannemorense. L. a poor iron ore.

* In regard to these Stones, no author is so excellent as Linnæus: himself has examined them in Sweden; and all his distinctions may be depended on: 'Twere well if the Stones of other countries had been so observ'd; but these run thro' all the north.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
3. SAHLBERG QUARRY STONE.							
Rocks	tender	heavy	uneven	GREY	coarse granulated	Sahlberg	lime. <small>Saxum Sahlbergense. L.</small>
4. ITALIAN QUARRY STONE.							
Thick strata	soft	heavy	plated	PALE BROWN	scaly, with talc	Italy	in buildings. <small>Saxum Talcotum. L.</small>
5. CAPE QUARRY STONE.							
Great masses	tender	light	granulated	GREY	small black spots	island of St. Helena	lime. <small>Saxum Helenæ. L.</small>
6. MOUNTAIN QUARRY STONE.							
Thick strata	very hard	heavy	wav'd	PALE BLUEISH GREY	small white spots	tops of Lapland mountains	glafs. <small>Saxum Æthereum. L.</small>

7. WAVY QUARRY STONE.							Saxum Undulatum. L.
Rocks	hard	heavy	undulated	RUDDY BROWN	spangled with talc	Sweden	building.
8. RADIANT QUARRY STONE.							Saxum Radiant.
A vast rock	hard	heavy	rugged	PALE BROWN	rays of black and purple garnets	Germany	building.
9. FAHLUN QUARRY STONE.							Saxum Fahlunense. L.
Vast strata	tender	heavy	granulated	RUDDY BROWN	white specks	Fahlun	building.
10. PEARLY QUARRY STONE.							Saxum Margaritaceum. L.
Thick strata	hard	heavy	coarsely granulated	WHITISH	white specks	Nericia	building.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
11. WHETTING QUARRY STONE.							
Thin strata	tender	heavy	streaky	REDDISH WHITE	striated	Scania	<small>Saxum Novaculare, L.</small> whetstones.
12. STENSHUWHEED QUARRY STONE.							
Thick strata	soft	light	scaly	YELLOWISH BROWN	flaky	Sweden	<small>Saxum Stenonis, L.</small> whetstones.
13. MORANE QUARRY STONE.							
Thick strata	hard	light	rugged	REDDISH BROWN	transpa- rent specks	Sweden	<small>Saxum Morense, L.</small> building.
14. BLACK LIN'D QUARRY STONE.							
Great rocks	very hard	heavy	uneven	RUST COLOUR'D	black streaks	Sweden	<small>Saxum Decussatum, L.</small> buildings.

17. CORN STONE.

Thick strata	tender	light
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wav'd

PALE
BROWNoblong
specks

Germany

buildings.

Saxum
Frumentale.
L.

16. MIXT QUARRY STONE.

Vast strata	hard	heavy
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rugged

WHITISH

black, sil-
very, and
red spots

Sweden

for mill stones.

Saxum
Molare.
L.

17. GARPENBERG STONE.

Great strata	hard	heavy
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granulated

WHITISH

with small
white talc

Garpenberg

buildings.

Saxum
Garbigenfe.
L.

18. BLUE GREEN QUARRY STONE.

Thick strata	tender	light
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flaky

BLUEISH
GREENgreenest
wet

Smoland

furnaces.

Saxum
Carulestone.
L.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
19. SALT QUARRY STONE.							
Great rocks	tender	heavy	flaky	BROWN	spangled, crumbles in air	Sweden	^{Saxum} Fatiscent. L. for nitre.
20. ALPINE QUARRY STONE.							
Thick strata	shattery	heavy	irregular	PALE BROWN	with talc and gra- nites	Norway	^{Saxum} Alpinum. L. buildings.
21. GRANITE QUARRY STONE.							
Vast rocks	hard	heavy	rugged	BLACK	with brown granites and talc	Sweden	^{Saxum} Granatum. L. buildings.
22. ROSE QUARRY STONE.							
Thick strata	very hard	heavy	raised in lumps	PALE RED	white and talcy spots	Sweden	^{Saxum} Tritorium. L. mill stones.

23. NORWAY QUARRY STONE.

Vast rocks hard heavy

plated

BLACK AND
WHITE

fine

Norway

building.

Saxum
Rocrofiense.
L.

24. GOLDEN QUARRY STONE.

Whole
mountains tender light

irregular

PALE
BROWN

spangles
of yellow
talc

Sweden

buildings.

Saxum
Montanum.
L.

25. MARESTRA AND QUARRY STONE.

Vast strata tender light

uneven,
and
plated

WHITISH

small
white
spangles

Sweden

buildings.

Saxum
Marestrandense.
L.

26. RUDDY QUARRY STONE.

Thick beds hard heavy

plated

REDDISH

red gar-
nets and
white
spangles

Sweden

buildings.

Saxum
Poncharum.
L.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
27. BITSBERG QUARRY STONE.							
Great rocks	hard	heavy	streaky	BLACK	longish black specks	Sweden	<small>Saxum Bitsbergense L.</small> buildings.
28. METALLINE QUARRY STONE.							
Thick strata	very hard	heavy	smooth	ASH COLOUR'D	white specks and spangles	Sweden	<small>Saxum Metalliferum L.</small> mother of ores.
29. SIBERIAN QUARRY STONE.							
Great masses	very hard	heavy	smooth	RED	white spots	Siberia	<small>Saxum Sibericum.</small> buildings.
30. ANGERMAN QUARRY STONE.							
Thin strata	hard	heavy	rugged	WHITISH	full of black talc	Sweden	<small>Saxum Angermanense L.</small> buildings.

M m 2	31. NORBERG QUARRY STONE.						Saxum Norbergense. L.
	Vast beds	hard	very heavy	irregular	WHITE	white spots	Norberg mother of iron ore.
	32. FURNACE QUARRY STONE.						Saxum Fornaceum. L.
	Great strata	flaty	heavy	plated	GREY	white and talcy spots	Sweden for furnaces.
	33. WHETTING STONE.						Saxum Cottarium. L.
	Oblong masses	tender	heavy	flaky	DEEP BROWN	like fossil wood	Cologn for whetstones.
	34. ANTIENT QUARRY STONE.						Saxum Grändavum. L.
	Vast rocks	hard	heavy	granulated	DARK GREY	talcy and bright spots	Sweden furnaces.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
35. RINGING QUARRY STONE.							<i>Saxum Tinnitans.</i> L.
Great rocks	very hard	heavy	smooth	IRON GREY, WITH SMALL GARNETS	rings, when struck	Sweden	buildings.
36. CLAY QUARRY STONE.							<i>Saxum Primigenum.</i> L.
Thick strata	hard	heavy	smooth	YELLOWISH BROWN	like hard clay	Sweden, England	coarse buildings.
37. PALE QUARRY STONE.							<i>Pfadium Fragile.</i> H.
Great strata	tender	light	rough	WHITISH BROWN	coarse	Northamp- tonshire	buildings.
38. BRIGHT QUARRY STONE.							<i>Pfadium Durius.</i> H.
Thick strata	hard	heavy	uneven	WHITISH	fine	Dorsetshire	buildings.

39. DUSKY QUARRY STONE.							Psadurium Albidofuscum. H.
Vast strata	tender	light	irregular	DUSKY GREYISH	coarse	Portland	buildings.
40. ROUND GRITTED QUARRY STONE.							Psadurium Rotundatum. H.
→ Great masses	tender	light	granulated	PALE BROWN	formed of crumbly stalag- mites	Ketton, in Rutland	buildings.
41. TAWNY QUARRY STONE.							Psadurium Scintillans. L.
Thick strata	soft	light	rugged	YELLOWISH BROWN	full of spangles	Leicester- shire	in buildings.
42. OLIVE QUARRY STONE.							Ammoschistum Virescens. H.
Vast strata	tender	heavy	plated	GREYISH GREEN	fissile, and spangled	Mendip hills.	in buildings.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
43. SPUNGY QUARRY STONE.							
Great rocks	very hard	heavy	uneven	PALE GREY	porous	Yorkshire	Sympexium Porosum. H. in buildings.
44. STRAW COLOUR'D QUARRY STONE.							
Thick strata	hard	very heavy	irregular	VERY PALE YELLOW	deeper yellow veins	Dorsetshire	Sympexium Albido- flavescens. H. in buildings.
45. LEAD COLOUR'D QUARRY STONE.							
Thick strata	very hard	heavy	smooth	DULL BLUEISH	perfectly even, like flint	Northamp- tonshire	Sympexium Subcaeruleum. H. in buildings.

46. VARIEGATED QUARRY STONES.

Thin strata

tender

heavy

irregular

DUSKY
REDblotches
of green

Derbyshire

coarse buildings.

• Sympexium Rubro-
virens.
H.

* These are the Stones of England, differing from the Swedish: five and twenty-years since, I examined, one by one, the Quarry Stones of this kingdom, in the same manner in which the excellent Linnæus has lately gone through those of Sweden. I hope those who study Fossils in other countries, will follow the same method; for there is no other: and the subject is worthy all attention.

S T O N E S.

O R D E R VI.

A G G R E G A T E S.

Formed of various Fossil matters, connecting, coating, or concreted with one another.

I. C O N N E C T I N G P U D D I N G S T O N E S.

A pebbly matter cementing together various pebbles.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. PALE PUDDING STONE.							
Great lumps	very hard	heavy	full of lumps	CREAM COLOUR'D	various pebbles	Hertfordshire	Lithozugium Albo-Flavicans. H. for snuff-boxes.
2. GREY PUDDING STONE.							
Large masses	hard	heavy	rude	BRIGHT GREY	large pebbles	Hertfordshire	Lithozugium Albo-griseum. H. snuff-boxes.
3. RED PUDDING STONE.							
Large lumps	hard	heavy	rugged	RED	small pebbles	Lincolnshire	Lithozugium Rubescens. H. ornaments.
4. BROWN PUDDING STONE.							
Great lumps	soft	heavy	irregular	DULL BROWN	filled with various pebbles	Leicestershire	Lithozugium Fuscum. H. boxes.

5. COARSE RED PUDDING STONE.							Lithozugium Impurius Rufescens. H.
Vast lumps	soft	heavy	rude	DULL RED	red, crystalline lumps	Yorkshire	coarse buildings.
6. COARSE BLUE PUDDING STONE.							Lithozugium Impurius Ceruleus. H.
Vast masses	hard	heavy	rugged	BLUEISH	with white lumps	Leicester- shire	pavements.
7. COARSE GREENISH PUDDING STONE.							Lithozugium Albo- virens. H.
Rounded nodules	very hard	heavy	rugged	GREEN	with co- lourless lumps	Minorca, England	fit for fine works.
8. COARSE VEINY PUDDING STONE.							Lithozugium Impurius Venosus. H.
Great lumps	soft	heavy	rugged	PALE RED	white veins and lumps	Scarborough	coarse buildings.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
9. OCHREOUS PUDDING STONE.							
Great lumps	hard	very heavy	rude and irregular	YELLOWISH BROWN	full of pebbles and sand	Sweden	<p><i>Saxum Amnigenum.</i> L.</p> <p>coarse furnaces.</p>
10. SHELLY PUDDING STONE.							
Irregular masses	soft	heavy	rugged	TAWNY	full of shells, sand, and pebbles	Sweden	<p><i>Tophus Marinus.</i> L.</p> <p>an iron ore.</p>
11. SANDY PUDDING STONE.							
Thin beds	soft	heavy	uneven	YELLOW	full of large sand	Germany	<p><i>Tophus Arenaceus.</i> L.</p> <p>an iron ore.</p>

A G G R E G A T E S T O N E S.

O R D E R II.

C O N C R E T E D.

T O P H E S.

N U M	FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
	1. BROWN CLAY TOPHE.							<i>Tophus Argillaceus</i> <i>Fuscus.</i> H.
	Great lumps	hard	heavy	smooth	YELLOWISH BROWN	clay-like	Essex	useless.
	2. REDDISH CLAY TOPHE.							<i>Tophus</i> <i>Argillaceus.</i> L.
	Large masses	very hard	heavy	wav'd	REDDISH	stone-like	Sweden	useless.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
3. SANDY TOPHE.							
Thin cakes	brittle	heavy	uneven	YELLOWISH	fandy	German Spa	<p>Tophus Thermalis. L.</p> <p>useless.</p>
4. WHITE STONE TOPHE.							
Great lumps	hard	heavy	smooth	WHITISH	clay-like surface	Sweden	<p>Tophstein Alba Crossedt.</p>
5. GREY STONE TOPHE.							
Great lumps	tender	heavy	smooth	GREY	hard on the surface	Sweden	<p>Tophus Ludus. L.</p>
6. GLOBE TOPHE.							
Round lumps	hard	heavy	dufty	YELLOW	fandy	clay pits	<p>Tophus Globus. L.</p>

7. SULPHUR TOPHE.

Thick cakes

tender

light

dusty

GREY

burns like
brimstonemineral
watersTophus
Sulphureus.
L.

8. ALUM TOPHE.

Thick lumps

soft

heavy

irregular

GREYISH
BROWN

compact

alum works

Tophus
Aluminarius.
L.

9. BONE TOPHE.

Hollow
pieces

tender

light

uneven

WHITE

bone-like

Germany

a medicine.

Tophus
Osteocolla.

A G G R E G A T E S.

ORDER III.

COATING.

CRUSTATED BODIES.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
I. ROOT CRUST.							
Oblong pieces	tender	light	rugged	RUSTY BROWN	hollow	Ireland	Tophus Pertusus. L.
2. WOOD CRUST.							
Oblong pieces	soft	heavy	rough	YELLOWISH	coated as wood	Germany	Tophus Sideroxylon. L.

3. HARD NUCLEATE CRUST.						
Oval lumps	hard	heavy	rugged	YELLOWISH	ruddy crusts	England
4. SOFT NUCLEATE CRUST.						
Round lumps	tender	heavy	scaly	BROWNISH	ruddy and greenish crusts	England
5. SOUNDING NUCLEATE CRUST.						
Round lumps	hard	heavy	dufty	YELLOWISH	rattles like eagle- stone	England
6. HARD DUSTY CRUST.						
Flatted lumps	hard	heavy	full of cracks	YELLOWISH	ruddy crusts, dufty within	England

Empheropyra
Levis.
H.

Empheropyra
Mollior.
H.

Heteropyra
Durior.
H.

Geodes
Rimosa.
H.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
7. SOFT DUSTY CRUST.							
Oval lumps	soft	heavy	rugged	TAWNY	purple, yellow crusts	England	Geodes Rugosa. H.
8. GREAT WATER CRUST.							
Large lumps	hard	heavy	crack'd	YELLOWISH	brown crusts, water within	England	Enhydros Crassior. H.
9. SMALL WATER CRUST.							
Oval	tender	light	dufty	BROWNISH	ruddy crusts, and water	England	Enhydros Tenuior. H.
10. PEA CRUST.							
Rude lumps	soft	light	of round lumps	BROWNISH	brittle	Germany	Tophus Oolithus. L.

11. CONIC CRUST.							<i>Tophus Turbinatus.</i> L.
Thick cones	tender	light	rugged	YELLOWISH BROWN	ruddy blotches	Helfenbeng	
12. ONION CRUST.							<i>Tophus Spatofus.</i> L.
○ Round balls	tender	heavy	shelly	BLACK	ragged at edges	Asia	
13. PEAR CRUST.							<i>Tophus Cotaceus.</i> L.
Oblong lumps	soft	heavy	tily	REDDISH YELLOW	brown crusts	Westrogoth- land	
14. TURN'D CRUST.							<i>Tophus Ienticularis.</i> L.
Oval lumps	very hard	very heavy.	scaly	DEEP BLACK	a ball of pyrites in the centre	Yorkshire	

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
15. RAGGED CRUST.							Tophus Schistose. L.
Vast lumps	tender	heavy	ragged	YELLOWISH	flaty	Germany	

A G G R E G A T E S.

ORDER IV.

HELMONTIÆ.

WAXEN VEINS.

Concreted Clay, and Spar, with cracks filled up by various matters.

I. WITH THE VEINS OF SPAR.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. WHITE WAXEN VEIN.							
Flatted cakes	hard	heavy	crack'd in small divisions	WHITE ON SURFACE, BROWN WITHIN	lemon-colour'd veins	river sides in Germany	Secomia Cinerea, H. a medicine for the gravel.
2. BLACKISH WAXEN VEIN.							
○ ○ N Oval cakes	tender	heavy	large divisions	BLACKISH BROWN	white veins	Pancrafs	Secomia Fusco-nigricans, H.
3. CLAY COLOUR'D WAXEN VEIN.							
Vaft cakes	hard	heavy	large divisions	BROWNISH YELLOW	pale yellow veins	London, clay-pits	Secomia Fusco-flavescens, H.
4. BROWN WAXEN VEIN.							
Vaft cakes	very hard	heavy	few divisions	RUSTY BROWN	brown veins	Hertfordshire	Secomia Fusco-ferruginea, H.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
5. CRUSTED WAXEN VEIN.							
Flatted masses	hard	heavy	rugged	YELLOWISH	crusted over, a nucleus	Deptford	Secomia Cruſtata, H.
6. IRON WAXEN VEIN.							
Flat masses	hard	heavy	few cracks	REDDISH BROWN	yellow veins	Yorkshire	Secomia Ferruginea, H.
2. WITH EARTHY VEINS.							
7. COMPACT WAXEN VEIN.							
Vast rounded cakes	very hard	heavy	numerous cracks	UMBER BROWN	white earthy veins	Leiceſterſhire	Gaiophragmium Fulcum, H.
8. COATED WAXEN VEIN.							
Oval lumps	hard	heavy	a thin coat	PALE BROWN	reddiſh brown veins	Yorkſhire	Gaiophragmium Ferrugineum, H.

3. WITH THE VEINS OF MUNDIC.

9. SOFT WAXEN VEIN.

Oval lumps	tender	light	porous	GREYISH BROWN	veins of mundic	Sheppey Island
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*Pyriticum
Mollius.
H.*

4. WITH CRYSTALLINE VEINS.

10. CRYSTALLINE WAXEN VEIN.

Flat cakes	very hard	heavy	smooth	RUSTY BROWN	bright crystalline veins	Yorkshire
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*Diagophragmium
Ferrugineum.
H.*

11. BLUE WAXEN VEIN.

Oval cakes	tender	heavy	rugged	BLUEISH	yellowish crystalline veins	Yorkshire
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*Diagophragmium
Caruleum.
H.*

5. CRUSTED WITH A NUCLEUS.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
12. LEMON WAXEN VEIN.							Brachypyrenium Flavescens. H.
Round lumps	hard	heavy	smooth	YELLOWISH BROWN	black nu- cleus, pale veins	Mendip	
13. SMALL WAXEN VEIN.							Bezoarticum Minerale. H.
Oval balls	tender	light	rugged	BROWN	yellow veins, and earth within	Northamp- tonshire	
14. HOLLOW WAXEN VEIN.							Brachopyrenium Fuscum. H.
* Turbinated balls	very hard	heavy	clay-like	GREYISH BROWN, YELLOW	a dusky hollow nucleus	Knightf- bridge	

NATIVE FOSSILS.

CLASS IX.

SALT S.

Soluble in water; and acrid to the taste.

ORDER I.

ACID SALT S.

Sour to the taste, and corrosive; dissolving many bodies.

GENUS I.

NITRE.

A Prism of six sides, terminated at each end by a Pyramid of six sides: * bitter, cold, and acrid to the taste.

* This is the form of pure Nitre, perfectly crystalized; but this, and all other Salts, are often foul, and shapeless.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
1. PURE NITRE.							
Small crystals	tender	heavy	glossy	CLEAR	moist	Finland, in Rapikivi stone	Nitrum Nudum. L.
2. STONY NITRE ORE.							
Vast rocks	hard	heavy	plated	GREY	fissile	Finland	Saxum Nitrosum. W. for nitre.
3. BROWN NITRE ORE.							
Vast beds	brittle	light	dusty	DEEP BROWN	crumbly	Persia	Terra Nitrosa Humacea. W. for nitre.
4. WHITE NITRE ORE.							
Thick strata	hard	heavy	crack'd	WHITISH	firm	India	Terra Nitrosa Calcareo. W. for nitre.
5. PLUMOSE NITRE.							
Small tufts	tender	light	thready	WHITE	crumbly	on rocks and walls	Nitrum Efflorescens. H. for nitre.

TH E S E are all the appearances in which Nitre is seen. The first is very rare ; the Crystals lie in little fissures of the Stone : the second, third, and fourth are the proper ores of this Salt : and in the fifth it shews itself from such ores, or others, in irregular crystalizations.

Nitre in all these forms is one thing ; disguised by various mixtures, as we see the earthy Fossils also often are ; but from any of them it may be obtained pure by crystalization.

Till lately, this quality of crystalization was supposed peculiar to Salts ; till very lately indeed : for 'tis but within these three weeks I have found Spar may be dissolved and crystalized again in the manner of Salts. In the preceeding part of this work, * I have lamented the ill success of four years trial : and formed my better hopes upon an assisting hand : that gentleman is absent from the kingdom ; but my own farther trials have succeeded. The excellent Linnæus will be pleased with this ; tho' it be contrary to his opinion ; he only wanted to see *Terram, via humida, crystalisari posse abs sale*, to be less firm in the idea of all crystalization being owing to Salt. This

* Page 66.

ocular testimony is now given : and I must continue to remove the stony bodies out of the Saline System.

I am aware it will be objected by such as see but half way into philosophical enquiries ; that myself have proved Spar to have a Saline part ; by shewing it composed of the Mineral Acid, and Bitumen : but we must use precision in our words, as well as ideas, on these subjects. The Mineral Acid is not in itself a Salt : 'tis true, it forms them all by various mixtures. By another mixture, it forms Spar ; a Stone, with the form of a Salt : but that form is its own : it neither is the form of any Salt, nor is caused by any Salt : and that is what remained to be proved : the question solely was, Do Spars owe their angulated forms, to any Salt ? and that is answered, No.

A C I D S A L T S.

GENUS II.

ALUM.

A dye of eight sides, with trigonal planes.

Austere and astringent to the taste; bubbling in the fire.

12

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
I. PURE ALUM.							
Minute crystals	hard	heavy	polished	COLOUR- LESS	pellucid	England, in cracks of fossil wood	Alumen Commune. L. in medicine, and the arts.
2. ROCK ALUM.							
Small crystals	hard	heavy	smooth	REDDISH	clear	Italy, in cracks of marble	Alumen Romanum. L. in medicine, and the arts.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES	PLACE.	USES.
3. RUDE ALUM.							
Large masses	tender	heavy	irregular	GREYISH	opaque	Italy	L'Alun Vierge Solide. W. for refining into alum.
4. PLUMOSE ALUM.							
Small tufts	soft	light	feathery	OLIVE- COLOUR'D	striated	Archipelago	Alumen Plumosum. W. a medicine.
5. GRANULATED ALUM.							
A dry powder	tender	light	uneven	WHITISH	small granules	Yorkshire	L'Alun Farineuse. W. for alum.
6. BLACK ALUM ORE.							
Vast cakes	hard	heavy	rugged	DEAD BLACK	bitumi- nous	Yorkshire	Terra Aluminaris Nigra. W. for alum.

7. BROWN ALUM ORE.							Terra Aluminaria Fusca. W.
Great lumps	soft	light	uneven	UMBER- COLOUR'D	bitumi- nous	Saxony	for alum.
8. WHITE ALUM ORE.							Terra Melia Cassipia
Small cakes	hard	light	rugged	PURE WHITE	alkaline	Archipelago	for alum.
9. GREY ALUM SLATE.							Fissilis Aluminaria Cinerea. W.
Vast strata	hard	heavy	plated	DUSKY GREY	flaty	Yorkshire	for alum.
10. BLACK ALUM SLATE.							Fissilis Aluminaria Nigra. W.
Vast beds	hard	heavy	irregular	DEEP BLACK	fissile	Yorkshire	for alum.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
11. RED ALUM SLATE.							
Great strata	tender	heavy	rugged	REDDISH	fissile	Yorkshire	Fissilis Aluminaria Rubescens. W. for alum.
12. IRISH ALUM SLATE.							
Vast cakes	soft	heavy	irregular	DEAD BLACK	rudely fissile	Ireland	Lapis Hibernicus H. a medicine for bruises.
13. ALUM ROCK.							
Great masses	very hard	heavy	uneven	REDDISH WHITE	fissile	Italy	Calcareus Aluminarius. W. for alum.
14. COAL ALUM.							
Vast beds	hard	heavy	plated	BLACK	bitumi- nous	Northum- berland	Lithanthrax Aluminaris. W.

15. WOOD ALUM.							Alumen Vegetabile, W.
Oblong pieces	hard	heavy	coated	BROWN	wood-like	Bohemia	
16. WEDGE ALUM.							Schistus Aluminosus Cuneiformis, Cr.
Great cakes	hard	heavy	crack'd	BLACK	breaks in wedges	Sweden	

To these might be added, the Pyritæ, for they contain Alum; but Sulphur being more predominant, 'tis best to refer them thither.
'Tis thus the mixtures of nature render a perfect method in Fossils, in itself impracticable.

Metals, added to Alum, make what we call, Vitriols.

A C I D S A L T S.

G E N U S III.

V I T R I O L S.

A Rhomb more or less irregular.

Austere to the taste.

CRYSTALIZED SIMPLE VITRIOLS.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. GREEN VITRIOL.							
Rude crystals	tender	heavy	uneven	PALE GREEN	six-sided	forest of Dean, in iron mines	Vitriolum Martis. L. a native copperas.)
2. BLUE VITRIOL.							
Oblong crystals	hard	heavy	smooth	FINE BLUE	twelve- sided	island of Cyprus	Vitriolum Cyprinum. L. a caustic.
3. WHITE VITRIOL.							
Rude crystals	tender	heavy	uneven	DEAD WHITE	twelve- sided	Germany	Vitriolum Album. L. in medicine.

FORMED SIMPLE VITRIOLS.

4. STALACTITIC GREEN VITRIOL.

Conic sta-
lactites

firm

heavy

coated

PALE
GREEN

hollow

Germany

Vitriolium Ferri
Stalacticum,
W.

for vitriol.

5. EFFLORESCENT GREEN VITRIOL.

Downy tufts

tender

light

uneven

WHITISH
GREEN.

thready

Germany

Vitriolium Ferri
Germinans,
W.

for vitriol.

6. WHITE STALACTICAL VITRIOL.

Oblong
icicles

hard

heavy

coated

WHITE

hollow

Saxony

Vitriolium Zinci
Stalacticum,
W.

for vitriol.

7. WHITE EFFLORESCENT VITRIOL.

Small
granules

tender

light

irregular

WHITE

crumbly

Saxony,
on Zinc oresVitriolium Zinci
Efflorescens,
W.

for vitriol.

FORM.	HARDNESS.	WEIGHT.	SURFAC.	COLOUR.	QUALITIES.	PLACE.	USES.
8. BLUE STALACTICAL VITRIOL.							
Short cones	hard	heavy	rough	FINE BLUE	hollow	islands of Archipelago	Vitriolium Cupri Stalacticum. W. for blue vitriol.
9. BLUE EFFLORESCENT VITRIOL.							
Bubbly lumps	tender	light	botryoid	PALE BLUE	crumbly	Cyprus	Vitriolium Cupri Germinans. W. for blue vitriol.
MIXED VITRIOLS: SIMPLE AND FIRM.							
10. HERMAPHRODITE VITRIOL.							
Small crystals	hard	heavy	rough	BLUE GREEN	clustery	Hungary	Vitriolium Hermaphroditicum. L.
11. ICICLE VITRIOL.							
Perfect icicles	tender	light	coated	PALE BLUE GREEN	hollow	Bohemia	Vitriolium Cæruleovirens Stalacticum. W.

12. TRIPLE VITRIOL.

Small cubes

hard

heavy

polished

DEEP
BLUE
GREEN

plated

Germany

Vitriolium
Triplum.
L.

13. STALACTITIC TRIPLE VITRIOL.

Tender
cones

soft

light

coated

WHITISH
GREEN

hollow

Gosselaer

Vitriolium Cupreo-ferreo-
zincum Stalacticum.
W.

14. BYSSINE TRIPLE VITRIOL.

Tufts like
moss

tender

light

botryoide

FAINT
GREEN

crumbly

Gosselaer

Vitriolium Cupreo-ferreo-
zincum Germinans.
W.

15. GREY GREEN VITRIOL.

Coarse
rhombs

hard

heavy

rough

GREY
GREEN

plated

Gosselaer

Vitriolium Zinco-
ferreum
Cristall.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES	PLACE.	USES.
16. GLAUCOUS VITRIOL.							Vitriolium Cincrum Cr.
Coarse crystals	tender	heavy	rugged	SEA GREEN	clustery	Saxony	
STONY VITRIOL ORES.							
17. RED VITRIOL ORE.							Vitriolium Chacitis. H.
Large masses	hard	heavy	irregular	BRICK COLOUR'D	cavernous	Archipelago	
18. GREY VITRIOL ORE.							Vitriolium Sory. H.
Rude lumps	brittle	light	uneven	PALE GREY	shattery	Archipelago	
19. YELLOW VITRIOL ORE.							Vitriolium Misy. H.
Large masses	hard	light	rugged	YELLOWISH	brittle	Archipelago	

Vitriolum
Melantheria.
H.

20. BLACK VITRIOL ORE.

Great lumps	hard	heavy	rugged	DEAD BLACK	cavernous	Greece
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EARTHY VITRIOLIC ORES.

Terra Vitriolica
Crustata.
H.

21. CRUSTED VITRIOL ORE.

Flat lumps	tender	light	plated	BROWN	a yellow crust on it	Germany	for vitriol.
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Terra Vitriolica
Rubra.
W.

22. RED VITRIOLIC EARTH.

Great cakes	firm	heavy	uneven	REDDISH	fine	Germany	for vitriol.
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F O R M.	H A R D N E S S.	W E I G H T.	S U R F A C E.	C O L O U R.	Q U A L I T I E S.	P L A C E.	U S E S.
23. BLACK VITRIOLIC EARTH.							Terra Vitriolica Nigra. W.
Great masses	tender	heavy	rugged	BLACKISH	coarse	Germany	for vitriol.
24. GREEN VITRIOLIC EARTH.							Terra Vitriolica Virescens. W.
Broad cakes	soft	heavy	rough	PALE GREEN	coarse	Germany	for vitriol.
25. BLUE VITRIOLIC EARTH.							Terra Vitriolica Cærulea. H.
Flat cakes	tender	heavy	rugged	DIRTY BLUE	brittle	Ireland	for vitriol.

S A L T S.

ORDER II.

ALKALINE.

Acrimonious, and fermenting with Acids.

GENUS I.

NATRUM.

A Prism of four sides, with pentagonal planes; with a Pyramid at each end, of two parallelogram planes.

Bitter to the taste ; melting on the fire.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. PERSIAN NATRON.							
Friable cakes	tender	light	uneven	PALE BROWN	crumbly	Persia	Natrum Antiquorum. L.
2. WALL NATRON.							
A tender efflorescence	soft	light	botryoide	WHITE	like hoar frost	on walls	Natrum Murorum. L.
3. SPRING NATRUM.							
Small crystals	firm	heavy	glossy	COLOUR- LESS	clustery	Bohemia, by sides of purging springs	Natrum Fontanum. L.
4. EARTHY NATRUM.							
Great cakes	tender	heavy	uneven	BROWN	clayey	Palæstine	Natrum Hasselquisti. L.

5. LIMESTONE NATRUM.

A dry dust

tender

light

uneven

WHITISH

crumbly

England,
Italy,
on limestone
and marble

Natrum
Rupium.
L.

S A L T S.

O R D E R III.

N E U T R A L.

Acrid ; and not fermenting with Acids.

G E N U S I.

S A L A R M O N I A C.

Oblong, furrow'd, sharp-pointed Crystals.

Bitter, and urinous.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. CRUDE SAL ARMONIAC.							Ammoniacum Concretum. W.
Great cakes	hard	heavy	rugged	GREY	opaque	East Indies	a medicine.
2. SANDY SAL ARMONIAC.							Sal Cyrenaicum Antiq.
Great lumps	brittle	heavy	rough	BLACKISH	fandy	Greece	
3. EFFLORESCENT SAL ARMONIAC.							Ammoniacum Efflorescens. W.
Downy tufts	tender	light	rugged	WHITISH	crumbly	Persia	
4. WHITE VESUVIAN SAL ARMONIAC.							Ammoniac Fossile Blanc. W.
Great cakes	tender	light	cavernous	GREYISH WHITE	fulphure- ous	Vesuvius	

5. RED VESUVIAN SAL ARMONIAC.

Rude lumps

hard

heavy

rugged

REDDISH

dusty

Vesuvius

Ammoniac Fossile
Rouge.
W.

6. YELLOW VESUVIAN SAL ARMONIAC.

Rugged
masses

hard

light

spongy

PALE
YELLOWsulphure-
ous

Vesuvius

Ammoniac Fossile
Jaunâtre.
W.

7. GREEN VESUVIAN SAL ARMONIAC.

Flat cakes

tender

light

rugged

GREENISH

cavernous

Vesuvius

Ammoniac Fossile
Verd.
W.

8. BLACK VESUVIAN SAL ARMONIAC.

Great lumps

hard

heavy

irregular

BLACKISH

spongy

Vesuvius

Ammoniac Fossile
Noir.
W.

NEUTRAL SALTS.

GENUS II.

BORAX.

A Prism of eight sides, with a truncated Pyramid at each end.

Disgustful to the taste; vitrifying in the fire.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. ROUGH BORAX.							
Rude cakes	hard	heavy	uneven	BLUEISH	opaque	East Indies	<small>Borax Crudus. W.</small> in medicine, and as folder to gold.
2. PURE BORAX.							
Small crystals	tender	heavy	polished	COLOUR- LESS	pellucid	East Indies	<small>Borax Nodus. L.</small> a medicine, and folder.

NEUTRAL SALT S.

GENUS III.

ROCK SALT.

Cubic Crystals ; or hexædral.

Sharp to the taste ; crackling in the fire.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. PURE ROCK SALT. SAL GEMME.							
Vast masses	hard	heavy	polished	COLOUR- LESS	transpa- rent	Poland	in food. Muria Montana, L.
2. RED ROCK SALT.							
Great lumps	hard	heavy	rugged	RED	femipel- lucid	Hungary	Muria Rubescens, H.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
3. BLUE ROCK SALT.							
Vast masses	hard	heavy	polished	DEAD BLUE	clear	Hungary	Muria Cerulea. H.
4. GREEN ROCK SALT.							
Great masses	hard	heavy	smooth	GREEN	clear	Bohemia	Muria Virens. H.
5. YELLOW ROCK SALT.							
Great lumps	hard	heavy	rugged	YELLOWISH	clear	Hungary	Muria Flavescens.
6. EFFLORESCENT ROCK SALT.							
Low tufts	soft	light	thready	WHITISH	granulated	Poland, on salt rocks	Muria Germinans. W.

7. EARTHY ROCK SALT.

Great cakes	soft	light	cavernous	BROWN	saline to the taste	Hungary
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Muria
Terra.
H.

8. STONY ROCK SALT.

Vast masses	hard	heavy	rugged	PALE BROWN	saline	Hungary
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Muria
Lapidea.
H.

9. SEA SALT.

Rude crystals	hard	heavy	irregular	BROWN	acrid	rocks on the sea coast
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Muria
Marina.

N E U T R A L S A L T S.

G E N U S IV.

S W I S S E S A L T.

Hollow Cubes; or hollow Pyramids.

Acrid to the taste; crackling in the fire.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. CUBIC SWISSE SALT.							Neutrum Cubicum. W.
Small masses	tender	heavy	rough	WHITISH	brittle	Switzerland	
2. OBLONG SWISSE SALT.							Neutrum Parallelopipedum. W.
Little clusters	soft	heavy	rugged	YELLOWISH	firm	Germany	
3. PYRAMIDAL SWISSE SALT.							Neutrum Pyramidale. W.
Small masses	tender	heavy	rough	PALE BROWN	brittle	Bothnia	

That this is not Rock Salt, or Sea Salt, tho' nearly ally'd to it, is proved by chemical experiments.

NATIVE FOSSILS.

CLASS X.

SULPHUREOUS.

Inflammable, electrical, soluble in oil.

GENUS I.

SULPHUR S.

Uniform, pure, or earthy; burning with a blue flame, and suffocating smell.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. CRYSTALLINE SULPHUR.							
Small masses	firm	heavy	glossy	PALE YELLOW	transpa- rent	Peru	Sulphur Vivum Pellucidum. W. medicine.
2. YELLOW NATIVE SULPHUR.							
Large masses	hard	heavy	finooth	STRONG YELLOW	opake	Germany	Sulphur Vivum Opacum. medicine.
3. VESUVIAN SULPHUR.							
Tufts of threads	tender	light	bright	FAINT YELLOW	strong scented	Vesuvius, in cracks of rocks	Sulphur Vivum Capillare. W. medicine.
4. EFFLORESCENT SULPHUR.							
A dust	soft	light	granulated	PALE YELLOW	mild scented	Aix la Chapelle	Sulphur Vivum Efflorescens. W. medicine.

5. WHITE SULPHUR ORE.

Small masses	tender	heavy
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rugged

WHITISH

soft

Vesuvius

medicine.

Sulphur Coloratum
Album.
W.

6. GREY SULPHUR ORE.

Vast cakes	hard	heavy
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irregular

DEAD
GREY

rough

Iceland

a medicine.

Sulphur Vivum
Coloratum.
W.

7. GREEN SULPHUR ORE.

Large lumps	hard	light
-------------	------	-------

rugged

GREEN

bright

Vesuvius

Sulphur Coloratum
Viride.
W.

8. BLACK SULPHUR ORE.

Great cakes	hard	heavy
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scaly

BLACK

bitumi-
nous

Germany

for sulphur.

Sulphur Coloratum
Nigrum.
W.

NATIVE FOSSILS.

GENUS II.

MARCASITES.

Heavy, metalline, angulated bodies.

I. CUBIC.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. YELLOW CUBIC MARCASITE.							
Regular cubes	hard	very heavy	smooth	GREENISH YELLOW	angles entire	Northum- berland, in flats	<div>Marcasita Tesselaris. W.</div> <div>for sulphur.</div>
2. YELLOW PRISMATIC MARCASITE.							
Oblong pieces	hard	heavy	smooth	YELLOW	irregular planes	Germany	<div>Marcasita Prismatica Hexaedra. W.</div> <div>for making sulphur.</div>

3. STRIATED CUBIC MARCASITE.

Small cubes	hard	very heavy
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glossy

WHITISH

striated
contrary
ways

Saxony

for brimstone.

Marcasita Cubica
Striata
de Lisle.

4. RHOMBOIDAL MARCASITE.

Large masses	very hard	heavy
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scaly

YELLOW

crusted

Germany

for brimstone.

Marcasita
Rhomboidalis
W.

5. TRUNCATED MARCASITE.

Large clusters	hard	heavy
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polished

DUSKY
YELLOWangles cut
off

Sweden

for brimstone.

Marcasita
Truncata
W.

6. FOURTEEN-SIDED MARCASITE.

Large clusters	hard	heavy
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glossy

BRONZE OF
GREEN
AND
YELLOW

thready

Germany

for brimstone.

Marcasita
Decaëderahedra
W.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
7. RUSTY MARCASITE.							
Small cubes	hard	heavy	rugged	RUST COLOUR'D	fourteen faces	England, France	<i>Marcasita Profundius Truncata de Lisle.</i> for brimstone.
8. EIGHTEEN-SIDED MARCASITE.							
Loose cubes	very hard	heavy	smooth	YELLOW	angles cut off	Sweden	<i>Pyrites Crystallinus Octodecahedrus. L.</i> for brimstone.
9. STRIATED RECTANGULAR MARCASITE.							
Great clusters	hard	heavy	scaly	GREENISH	striated	Germany	<i>Marcasita Cubica Striata de Lisle.</i> for brimstone.
10. TWELVE-SIDED MARCASITE.							
Large clusters	very hard	heavy	smooth	BRASSY YELLOW	polished	Sweden	<i>Pyrites Crystallinus Dodecahedrus. L.</i> for brimstone.

2. P Y R A M I D A L:

II. REGULAR PYRAMIDAL MARCASITE.							Pyrites Crystallinus Tetrahædrus. L.
Large clusters	hard	heavy	rugged	GREENISH YELLOW	equal sides	Germany	for brimstone.
12. LONG PYRAMIDAL MARCASITE.							Pyrites Henckelia de Lisle.
Small clusters	hard	heavy	polished	BRIGHT BRASSY YELLOW	irregular	Germany	for brimstone.
13. TRUNCATED PYRAMIDAL MARCASITE.							Pyrites Pyramidalis Truncatus de Lisle.
Great clusters	hard	heavy	rugged	BROWNISH	angles cut off	Germany	for brimstone.

3. OCTAHÆDRA L.

Composed of two quadrilateral Pyramids, joined base to base.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
14. REGULAR OCTAHÆDRA L. MARCASITE.							
Large clusters	hard	heavy	rough	GREENISH YELLOW	eight equal triangles	Saxony	Marcasite Octædre Regulier de Lisle. for brimstone.
15. LONG OCTAHÆDRA L. MARCASITE.							
Single pieces	very hard	heavy	glossy	BRASSY YELLOW	eight unequal triangles	Saxony	Marcasite Octædre Allonge de Lisle. for brimstone.
16. IRREGULAR OCTAHÆDRA L. MARCASITE.							
Small clusters	hard	heavy	scaly	YELLOW	eight irregular triangles	Germany	Marcasite Octædre Inegale de Lisle. for brimstone.

17. TRUNCATED OCTAHÆDRAL MARCASITE.

Great
clusters

tender

light

polished

BRASSY

angles cut
off

Saxony

Marcasite Octaèdre
Tronqué
de Lisle.

for brimstone.

18. FLATTED OCTAHÆDRAL MARCASITE.

Clusters

hard

heavy

scaly

GREENISH
YELLOW

low

Bohemia

Marcasite Octaèdre
Comprimé
de Lisle.

for brimstone.

19. OBLIQUE OCTAHÆDRAL MARCASITE.

Single pieces

hard

heavy

polished

GOLD
YELLOW

oblique
joinings

Germany

Marcasite Octaèdre
Oblique
de Lisle.

for brimstone.

20. BRONZ'D OCTAHÆDRAL MARCASITE.

Great
clusters

hard

heavy

rugged

BRONZ'D
GREEN

solid angles
cut off

Saxony

Marcasite Octaèdre
à 14 Facettes
de Lisle.

for brimstone.

4. POLYGONAL MARCASITES.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. TWELVE-SIDED MARCASITE.							
Great clusters	very hard	heavy	scaly	BRASSY YELLOW	two pen- tagonal Pyramids	Germany	<div>Marcasite Dodecahedre de Lille.</div> for brimstone.
2. TWENTY-SIDED MARCASITE.							
Small clusters	hard	heavy	rude	GREENISH	twenty equilateral triangles	Saxony	<div>Marcasite Icosedre de Lille.</div> for brimstone.

N A T I V E F O S S I L S.

G E N U S III.

P Y R I T E S.

P Y R I T E S.

Globular, rugged, flattened, or hollow'd; and striated within.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. GLOBULAR PYRITES.							
Round, rough lumps	hard	very heavy	warted	FERRUGI- NEOUS BROWN	large striae	England	Pyrites Figuratus Globosus. L. for sulphur.
2. HEMISPHERIC PYRITES.							
Great cakes	very hard	heavy	rugged	GREENISH BROWN	fine striae	Cornwall	Pyrites Figuratus Haemisphericus. L. for brimstone.
3. HOLLOW PYRITES.							
Oblong masses	tender	heavy	rough	FERRUGI- NEOUS	tubular	Sweden	Pyrites Figuratus Fritulosus. L. for brimstone.
4. PLATED PYRITES.							
Flatted masses	hard	heavy	scaly	GREENISH BROWN	upright scales	Sweden	Pyrites Figuratus Laminosus. L. for brimstone.

NATIVE FOSSILS.

GENUS IV.

MUNDIC.

Of no certain shape; heavy, and of a metalline aspect.

1. BRIGHT, AND STRIKING FIRE WITH STEEL.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. SMOOTH MUNDIC.							
Flat masses	hard	heavy	even	DUSKY GREEN	bright	Cornwall	<small>Pyrites Ferri Æqu. lit. L.</small> for sulphur.
2. GRANULATED MUNDIC.							
Great masses	hard	heavy	rugged	GREEN, AND VIOLET	bright, grain'd	Cornwall	<small>Pyrites Ferri Granulatus. L.</small> for brimstone.

3. STREAKY MUNDIC.

Vast cakes	hard	heavy	smooth	PALE YELLOW	friated, and bright	Derbyshire
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Pyrites Ferri
Chalybeatus.
L.

for brimstone.

2. IMPURE, DULL, AND SCARCE STRIKING FIRE WITH STEEL.

4. SPANGLE MUNDIC.

Great masses	hard	heavy	scaly	WHITISH, AND YELLOW	full of spangles of talc	Germany
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Pyrites Cupri
Micaceus.
L.

for brimstone.

5. TALCY MUNDIC.

Rude lumps	tender	light	flaky	BROWN, AND YELLOW	with plates of talc	Sweden
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Pyrites Cupri
Talcosus.
L.

for brimstone.

6. CHAFFY MUNDIC.

Large cakes	hard	light	rugged, and chaff-like	BLACK, BROWN, AND YELLOW	plates of talc and clay	Germany
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Pyrites Cupri
Acerosus.
L.

for brimstone.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
7. TAWNY MUNDIC.							
Vast masses	hard	heavy	uneven	YELLOWISH BROWN	bright specks	Sweden	Pyrites Cupri Fulva. L. for brimstone.
8. GOLDEN MUNDIC.							
Small cakes	very hard	heavy	undulated	GOOD YELLOW	stony mixture	Germany	Pyrites Cupri Flava. L. for brimstone.
9. GREEN MUNDIC.							
Great cakes	hard	very heavy	rugged	GREEN	shining	Sweden	Pyrites Cupri Virescent. L. for brimstone.
10. LIVER MUNDIC.							
Vast cakes	hard	very heavy	raised in lumps	RUDDY BROWN	fine	Sweden	Pyrites Cupri Hépatica. L. for brimstone.

11. HONEYCOMB MUNDIC.

Rude lumps

hard

light

porous

RUSTY
YELLOW

coarse

Sweden

for brimstone.

Pyrites Cupri
Foraminosus.
L.

12. FIRM MUNDIC.

Vast flat
cakes

very hard

very
heavy

smooth

GREENISH
YELLOWperfectly
fine

Germany

for brimstone.

Pyrites Cupri
Compactus.
L.

13. GRITTY MUNDIC.

Rough
masses

friable

heavy

granulated

RUSTY
YELLOW

coarse

Sweden

for brimstone.

Pyrites Cupri
Granulatus.
L.

14. RHOMBIC MUNDIC.

Flat cakes

hard

heavy

flaky

GREENISH
YELLOWbreaks in
rhombs

Sweden

for brimstone.

Pyrites Cupri
Spatiformis.
L.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
15. CRYSTALLINE MUNDIC.							
Rude lumps	very hard	very heavy	botryoide	GREENISH YELLOW	breaks like flint	Sweden	<div>Pyrites Cupri Quartzosus. L.</div> for brimstone.
16. STONY MUNDIC.							
Great masses	hard	heavy	rugged	YELLOWISH	very fine	Germany	<div>Pyrites Cupri Cotaceus. L.</div> for brimstone.
17. PURPLE MUNDIC.							
Vast lumps	very hard	heavy	rough	DEEP TAWNY PURPLE	coarse	Sweden	<div>Pyrites Aquosus. L.</div> for brimstone.

SULPHUREOUS FOSSILS.

GENUS V.

AMBERGRISE*.

AMBR A.

Light, tender, of a perfumed scent; swimming on water.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. GREY AMBERGRISE.							
Small masses	very tender	very light	smooth.	PALE GREY	crumbly	East Indies	<small>Ambra Ambrosiaca, L.</small> in perfumes, and medicine.
2. WHITE AMBERGRISE.							
Little lumps	brittle	light	scaly	WHITE	friable	Africa	<small>Ambra Unicolora Alba. W.</small> perfume.

* Feathers, and beaks of birds, and fish bones, are often found in Ambergrise.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USE.
3. YELLOW AMBERGRISE.							Ambra Unicolor Citrina. W.
Rugged cakes	tender	light	rough	PALE YELLOW	very opaque	Madagascar	perfume.
4. BROWN AMBERGRISE.							Ambra Unicolor Fusca. W.
Rounded lumps	hard	heavy	coated	DUSKY BROWN	coarse	Greenland	a coarse perfume.
5. BLACK AMBERGRISE.							Ambra Unicolor Nigra. W.
Round lumps	hard	heavy	polished	JET BLACK	firm	Greenland	a coarse perfume.
6. COARSE AMBERGRISE.							Ambra Vulgatior. L.
Rude masses	soft	light	cavernous	DIRTY BROWN	friable	North Seas	a coarse perfume.

7. YELLOW MOTTLED AMBERGRISE.				PALE GREY, WITH YEL- LOW SPOTS	tough	Sumatra	the finest of per- fumes.
Small cakes	very soft	light	uneven				
8. BLACK MOTTLED AMBERGRISE.				GREY, AND BLACK	soft	Madagascar	a very fine perfume.
Rude lumps	tender	light	rugged				

*Ambra Grisea Maculis
Flavis.
W.*

*Ambra Grisea Maculis
Nigris.
W.*

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2

S U L P H U R E O U S F O S S I L S.

G E N U S VI.

A M B E R.

S U C C I N U M.

Light, firm, fragrant when rubb'd, and electrical; sinking in water.

I. NATURALLY PELLUCID.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
1. PURE YELLOW AMBER.							
Great cakes	firm	very light	polished	PALE YELLOW	pellucid	Prussia	Succinum Electricum. L. a medicine.
2. MILKY AMBER.							
Small masses	hard	very light	smooth	WHITISH	pellucid	East Indies	Succinum Pellucidum Album. W. medicine.
3. GOLDEN AMBER.							
Large lumps	firm	light	rumpled	GOLD YELLOW	pellucid	the Baltic	Succinum Pellucidum Falconum. W. medicine.
4. RUDDY AMBER.							
Small masses	hard	very light	wavy	DUSKY RED	pellucid	Prussia	Succinum Pellucidum Rubrum. W. in medicine.

2. N A T U R A L L Y O P A K E.

5. WHITE AMBER.								Succinum Opacum Album. W.
Rude lumps	hard	light	rugged	CHALKY WHITE	opake	Denmark	medicine, and the arts.	
6. COARSE YELLOW AMBER.								Succinum Opacum Flavescens. W.
Great cakes	firm	very light	uneven	COARSE YELLOW	foul	Prussia	medicine, and the arts.	
7. BROWN AMBER.								Succinum Opacum Fuscum. W.
Small cakes	hard	light	smooth	YELLOWISH BROWN	foul	Prussia	medicine, and the arts.	

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
8. GREY AMBER.				BLUEISH, OR GREENISH GREY			Succinum Opacum Cærulefcens. W.
Large lumps	hard	light	rugged		foul	Germany	in the arts.

Ambers, coloured by art, should be excluded from a collection of natural curiosities. 'Tis a nice method, and a difficult thing to accomplish ; but there are some ingenious Polish Jews, who make a trade of it. A great deal of the pale yellow, streaky Amber has gone through their hands ; and I have seen purple, and green Ambers, whose colours were not naturally their own.

Insects, in Amber, make a pretty addition to the kinds, kept in a cabinet ; and they are best arranged separately after these, according to the distinct kinds of Amber, which contain them.

S U L P H U R E O U S F O S S I L S.

G E N U S VII.

W A T E R - O I L.

N A P H T H A.

Very light ; very thin ; of a strong smell.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. COLOURLESS NAPHTHA.							
Watery	purest of fluids	lightest of fluids	bright	CLEAR	most inflammable	Media	Naphtha Hyalina, L. for light.
2. WHITISH NAPHTHA.							
Whey-like	pure	light	cloudy	BRIGHT	very inflammable	Persia	Bitumen Naphtha, L. for lights.
3. BROWN NAPHTHA.							
Oily	pure	very light	cloudy	PALE YELLOWISH BROWN	strong scented	Persia	Naphtha Obscura, W. in medicine.
4. RUDDY NAPHTHA.							
Oily	pure	light	bright	REDDISH	very strong scented	Italy	Naphtha Rubescens, W. in medicine.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
5. GREEN NAPHTHA.							Naphtha Viridis. W.
Watery	pure	light	very bright	GREENISH	less scented	Germany	

SULPHUREOUS FOSSILS.

G E N U S VIII.

R O C K - O I L.

P E T R O L E U M.

Light; of the thickness of oil; ill smelling?

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. YELLOW PETROLEUM.							
Oily	clear	light	bright	PALE YELLOW	very in- flammable	Italy	Oleum Montanum Luteum, Wolt. for lamps.
2. BROWN PETROLEUM.							
X Oily	foul	light	duky	RUDDY BROWN	strong scented	Italy	Bitumen Petroleum, L. for lights.
3. BLACKISH PETROLEUM.							
Thick	very foul	light	cloudy	BLACKISH BROWN	earthy	Germany	Petroleum Oleum Terræ, W. in medicine.

S U L P H U R E O U S F O S S I L S.

G E N U S IX.

E A R T H - O I L.

M A L T H A.

Light; strong scented; thick as Tar.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
I. RUDDY MALTHA.							
Scarce fluid	pure	light	bright	DEEP REDDISH BROWN	sticking to the fingers	Mount Caucasus	Bitumen Mumia. L. for mummies.
2. BLACK MALTHA.							
Very thick	foul	light	cloudy	BLACK	strong scented	Persia	Bitumen Malthæ. L. for lights.

SULPHUREOUS FOSSILS.

GENUS X.

ASPHALT H S.

ASPHALTA.

Light; tough like pitch; brittle; strong scented.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
I. PURE ASPHALT.							Bitumen Asphaltum.
Great cakes	brittle	light	rugged	DEEP BLACK	scented	Greece, and Sweden	in medicine.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
2. RUDDY ASPHALT.							
Vast lumps	hard	light	flaky	REDDISH	very stinking	Sweden	<p>Bitumen Hepaticum. L.</p> <p>medicine.</p>
3. TURFF ASPHALT.							
Thick strata	tough	light	most irregular	BLACKISH BROWN	full of roots	England	<p>Terra Bitumena Turfacea. W.</p> <p>for firing.</p>
4. DUSTY ASPHALT.							
Great cakes	tender	light	rugged	BLACK	moulders to dust	Germany	<p>Terra Bitumena Humacea. W.</p> <p>firing.</p>
5. SLATY ASPHALT.							
Thin strata	hard	heavy	plated	DEEP BLACK	fissile	England	<p>Terra Bitumena Fissilis. W.</p> <p>firing.</p>

SULPHUREOUS FOSSILS.

GENUS XI.

COAL.

LITHANTHRAX.

Hard ; heavy ; stone-like.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. BRIGHT COAL.							
Vast strata	tender	heavy	flaky, and clean	SHINING BLACK	bright	England	for firing. <small>Bitumen Lithanthrax. L.</small>
2. DULL COAL.							
Vast strata	hard	heavy	rugged, and dusty	DEAD BLACK	obscure	England	for firing. <small>Lithanthrax Duriore. W.</small>

SULPHUREOUS FOSSILS.

GENUS XII.

J E T.

G A G A S.

Hard ; light ; amber-like.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
I. PURE JET.							
Great masses	hard	very light	smooth	FINE DEEP BLACK	swims on water	Germany	Bitumen Gagat. L. for ornaments.
2. BRITTLE JET. CANEL COAL.							
Thick strata	brittle	light	rugged	DEEP BLACK	sinks in water	England	Lapis Ampelites. H. Ornaments, and firing.

SULPHUREOUS FOSSILS.

GENUS XIII.

ORPIMENT.

AURIPIGMENTUM.

Talcy; bright; flexile when pure; burning with a garlic smell.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. PLATED YELLOW ORPIMENT.							
Flat cakes	tender	heavy	polished	GOLD YELLOW	flexile, like talc	Smyrna	Pyrites Auripigmentum. in painting.
2. SPANGLED YELLOW ORPIMENT.							
Vast lumps	hard	heavy	scaly	PALE YELLOW	shattery	Turkey	Auripigmentum Flavescens. H. in painting.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
3. SPANGLED RED ORPIMENT*.							Auripigmentum Cinnabarium. H.
Small lumps	tender	heavy	flaky	BRIGHT RED	in a grey coarse kind	Germany	painting.
4. SOLID RED ORPIMENT.							Sandaracha Aurorum. H.
Great lumps	hard	heavy	smooth	FINE DEEP RED	shattery	Greece	for painting.
5. EARTHY YELLOW ORPIMENT.							Zarnichium Flavum. H.
Large lumps	soft	heavy	rugged	GOOD YELLOW	brittle	Germany	for painting.
6. EARTHY GREEN ORPIMENT.							Zarnichium Virescens. H.
Great cakes	tender	heavy	rough	DIRTY GREEN	brittle	Germany	in painting.

7. EARTHY WHITE ORPIMENT.

Zarnichium
Albescens,
H.

Large lumps	brittle	heavy	rugged	WHITISH GREY	yellow spangles	Germany	in painting.
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* The Yellow Orpiments become red, by burning: but these are so in nature.

SULPHUREOUS FOSSILS.

GENUS XIV.

ARSENIC.

ARSENICUM.

Crystalline; with truncated Prisms; burning with a garlic smell.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. PURE ARSENIC.							
Clusters of crystals	hard	heavy	polished	COLOUR- LESS	pellucid	Bohemia	Arsenicum Nudum. L. a poison.
2. CRUSTED ARSENIC.							
Small lumps	tender	heavy	scaly	WHITISH	breaks in scales	Hungary	Arsenicum Tectacum. L. poison.
3. FLAKY ARSENIC.							
Flat cakes	soft	light	plated	GREY	fissile	Sweden	Arsenicum Squamosum. L. a poison.
4. HONEYCOMB ARSENIC.							
Rude lumps	hard	heavy	full of holes	WHITISH BROWN	stinking	Bohemia	Arsenicum Pomum. L. a poison.

5. EARTHY ARSENIC.				BLUE GREY	brittle	Bohemia	a poison.	Arsenicum Sulphuratum. L.
Great lumps	tender	heavy	ragged					
6. GLOSSY WHITE ARSENIC.				WHITE	full of white glittering specks	Sweden	poison.	Arsenicum Albicans. L.
Rude lumps	hard	heavy	uneven					
7. CUBIC ARSENIC.				ASHY GREY	silvery white, when broke	Saxony	poison.	Arsenicum Cubicum. L.
Small crystals	hard	heavy	crack'd					
8. OCTAHÆDRAL ARSENIC.				BLACK, OR GREY	very solid	Germany	a poison.	Arsenicum Crystallinum. L.
Small lumps	hard	heavy	polished					

Authors speak of red Arsenics ; but on trial, they do not yield the same kind of Regulus as the other Arsenics. They answer all the tests, as O. piment ; and I have therefore placed them there.

Whether Arsenic be a Sulphur, or a Metal ; whether its Regulus be genuine, or not, is undetermined. I have placed it last in the Sulphureous Class, and next before the Metals.

N A T I V E F O S S I L S.

C L A S S XI.

S E M I - M E T A L S.

Metalline ; heavy ; not malleable.

G E N U S I.

Q U I C K S I L V E R.

H Y D R A R G Y R U M.

Silvery white ; shining ; fluid ; volatile.

F O R M.	H A R D N E S S.	W E I G H T.	S U R F A C E.	C O L O U R.	Q U A L I T I E S.	P L A C E.	U S E S.
1. VIRGIN QUICKSILVER.							
Fluid	soft	very heavy	polished	SILVERY WHITE	moveable	Peru, Germany, Sweden	Hydrargyrum Virgineum. L. ♦ in medicine, gilding.
2. RUBY QUICKSILVER †.							
A cubic crystal	tender	very heavy	bright	PURE RED	transpa- rent	Germany, Sweden	Hydrargyrum Crytallinum. L.
3. STRIATED CINNABAR †.							
Flatted cakes	hard	heavy	smooth	SCARLET	streaky	China	Hydrargyrum Cinnabaris. L. in medicine, and painting; and for quicksilver

* The variation in the aspect, and mixture of the ores of Metals, is utterly without end. The great attempt must be to distinguish the principal Varieties; and under these, to arrange in the cabinet, those whose farther mixtures render them subordinately various again.

† All the Cinnabars are ores of Quicksilver, with Sulphur.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
4. FLAKY CINNABAR.							
Rude lumps	hard	very heavy	scaly	STRONG RED	fractile	Hungary	Hydrargyrum Cinnabaris α. L. for quicksilver.
5. GRANULATED CINNABAR.							
Coarse masses	tender	heavy	rugged	FINE RED	brittle	Germany	Hydrargyrum Cinnabaris β. L. for quicksilver.
6. CRYSTALLIZ'D CINNABAR.							
Small masses	hard	very heavy	polished	BRIGHT RED	shining	Saxony	Hydrargyrum Cinnabaris γ. L. for quicksilver.
7. JAPAN CINNABAR.							
Small masses	very hard	heavy	smooth	SCARLET	glossy	Japan	Hydrargyrum Glandulosum. L. in painting.

8. EARTHY CINNABAR.

Small masses	soft	very heavy	dusty	STRONG RED	ochreous	Sweden	for quicksilver.
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Hydrargyrum Cinnabaris
Friabilis
Cronstedt.

9. CRACKLING QUICKSILVER.

Small lumps	hard	very heavy	smooth	RAVEN GREY	crackles in the fire	Sweden	for quicksilver.
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Hydrargyrum
Cripetans.
L.

N A T I V E F O S S I L S.

G E N U S II.

B I S M U T H.

V I S M U T U M.

Yellowish white; flaky; brittle, yet soft.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. FLAKY NATIVE BISMUTH.							Vismutum Nativum Squammosum Cronstedt.
Flat masses	tender	heavy	scaly	SILVERY WHITISH	fissile	Sweden	
2. CUBIC NATIVE BISMUTH.							Vismutum Nativum Cubicum Cronstedt.
Confused clusters	hard	heavy	irregular	YELLOWISH	little cubes	Saxony	
3. EFFLORESCENT BISMUTH.							Vismutum Efflorescens Cronstedt.
A dust	tender	light	powdery	PURE WHITE	spreading on stones	Sweden	
4. SHATTERY BISMUTH ORÉ.							Vismutum Commune. L.
Great lumps	brittle	heavy	scaly	SILVERY GREY	formed of broad flakes	Sweden	

5. SPARKLING BISMUTH ORE.

Small cakes	hard	very heavy	rugged	PALE YELLOWISH	form'd of small scales	Sweden
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Vismutum
Squammosum
Cronstedt.

6. WEDGY BISMUTH ORE.

Great lumps	tender	heavy	flaky	DUSKY GREY	of wedge- like scales	Saxony
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Vismutum
Cuneiforme
Cronstedt.

7. STREAKY BISMUTH ORE.

Flat cakes	hard	very heavy	ridg'd	BLUEISH GREY	of striated scales	Germany
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Vismutum
Iners.
L.

NATIVE FOS SILS.

GENUS III.

ZINK.

ZINCUM.

Lead-colour'd ; brittle ; crackly ; composed of flatted Pyramids.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
I. CRYSTALLINE ZINK.							
Clusters of crystals	tender	very heavy	rugged	BRIGHT GREY	of slender truncated crystals	Germany	Zincum Crystallinum. L. in medicine.
2. INDURATED ZINK.							
Rude lumps	hard	heavy	smooth	WHITISH GREY	spar-like	Sweden	Zincum Induratum Cronstedt.

3. TILY ZINK ORE.							Zincum Mineralifatum. L.
Large lumps	firm	very heavy	ridg'd	PALE GREY	of plates, like tiles	Germany	
4. PALE CALAMINE. *							Lapis Calaminaris Albescens Cronstedt.
Rude masses	tender	light	rugged	WHITISH BROWN	cavernous	England	for zink.
5. YELLOW CALAMINE.							Zincum Calaminaris. L.
Large lumps	hard	heavy	rough	PALE YELLOW	granulated	England	
6. RUDDY CALAMINE.							Lapis Calaminaris Rubescens Cronstedt.
Small masses	brittle	very heavy	rugged	REDDISH	stony	Poland	

* All the Calamines are ores of Zink.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
7. CLAYEY CALAMINE.							
Great cakes	tough	heavy	smooth	YELLOWISH	soft	Germany	Lapis Calaminaris Argillaceus Cronstedt.
8. SWABIAN ZINK ORE.							
Vast masses	hard	very heavy	granulated	PALE GREY	glittering	Sweden	Zincum Swabii. L.
9. FIBROSE ZINK ORE.							
Small lumps	hard	heavy	striated	LEAD COLOUR'D	shining	Germany	Zincum Stibiatum α. L.
10. RIDGED ZINK ORE.							
Small masses	very hard	heavy	uneven	LEAD COLOUR'D	upright scales	Sweden	Zincum Stibiatum β. L.

II. CUBIC BLENDE.*

Great lumps	hard	very heavy	raised in ridges	BLACKISH GREY	bright, and scaly	Germany
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Zincum
Sterile.
L.

12. STEEL-GRAIN'D BLENDE.

Great masses	hard	heavy	rugged	LEAD COLOUR'D	glittering	Sweden
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Zincum
Chalybeatum
Cronstedt.

13. YELLOW BLENDE.

✦ Flatted lumps	tender	heavy	smooth	PALE YELLOW	semi-transparent	Hungary
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Zincum
Rapax.
L.

14. GREEN BLENDE.

Small lumps	hard	heavy	rugged	DULL GREEN	scaly	Germany
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Pseudogalena
Virens
Cronstedt.

* All the Blendes are also Zink Ores.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
15. BLACK BLENDE.							
Vast masses	hard	very heavy	uneven	DEAD BLACK	breaks in flakes	Sweden	Pseudogalena. Nigra Cronstedt.
16. BROWN BLENDE.							
Great cakes	tender	heavy	scaly	DIRTY BROWN	fissile	Germany	Pseudogalena Fusca Cronstedt.
17. WHITE BLENDE.							
Rounded lumps	hard	heavy	granulated with fine scales	WHITISH	femi- pellucid	Sweden	Pseudogalena Alba Cronstedt.
18. LEMON BLENDE.							
Flat cakes	hard	very heavy	scaly, and glittering	VERY PALE YELLOW	pure	Sweden	Pseudogalena Pallidiflava Cronstedt.

19. RUDDY BLENDE.

Great lumps	very hard	heavy	rugged	REDDISH BROWN	sparkling with small scales	Germany
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Pseudogalena
Rubescens
Cronstedt.

20. UMBER BLENDE.

Vast cakes	hard	heavy	rough	FINE DARK BROWN	sparkling	Germany
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Pseudogalena Sordide
Fulca
Cronstedt.

21. CONGLOMERATE BLENDE.

Roundish masses	hard	heavy	rugged	BLACK	breaks in octohedral forms	Germany
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Zincum
Crystallinum.
L.

NATIVE FOSSILS.

GENUS IV.

ANTIMONY.

STIBIUM.

Fibrose; friable; silvery.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
I. NATIVE ANTIMONY.							
Rugged masses	tender	heavy	fibrose	WHITISH	pure	Sweden	<p>Stibium Nativum. L.</p> <p>in medicine.</p>
2. COARSE ANTIMONY ORE.							
Great cakes	brittle	heavy	rugged	LEAD COLOUR'D	thick striæ	Germany	<p>Antimonum Mineralisatum Crassius Crostedt.</p>

3. NEEDLE ANTIMONY ORE.

Small masses	tender	lighter	striated	WHITISH GREY	fine striæ	Sweden
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A. M.
Tenuius
Cronstedt.

4. STEEL GRAIN'D ANTIMONY ORE.

Great lumps	hard	heavy	rugged	STEEL- COLOUR'D	sparkling	Germany
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A. M.
Chalybeatum.

5. PYRAMIDAL ANTIMONY ORE.

Small masses	tender	lighter	cavernous, and pointed	WHITISH	of concen- tric pyra- mids	Sweden.
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A. M.
Crystallinum
Cronstedt.

for antimony.

6. RED ANTIMONY ORE.

Great lumps	hard	heavy	striated	REDDISH	of fine perfect striæ	Saxony
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A. M.
Solare
Cronstedt.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
7. PURPLE ANTIMONY ORE.							
Great masses	hard	very heavy	streaky, and rugged	DUSKY PURPLE	abrupt striae	Sweden, Hungary	A. M. Abruptum Cronstedt.
8. FEATHER'D ANTIMONY ORE.							
Small lumps	tender	light	feathery	SILVERY WHITE	friable	Germany	A. M. Argentiforme Cronstedt.
9. SILVER ANTIMONY ORE.							
Large masses	hard	very heavy	rugged	DARK GREY	rub to a red pow- der	Sweden	A. M. Argenteo Cupreum Cronstedt.
10. PRISMATIC ANTIMONY.							
Small lumps	hard	heavy	striated	BRIGHT	of multi- lated prisms	Sweden	A. M. Crystallinum Cronstedt.

II. RADIATED ANTIMONY ORE.

Great lumps	tender	heavy	thready	LEAD COLOUR'D	of cross- ing striæ	Germany	for letter- founders.
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Stibium
Striatum.
L.

N A T I V E F O S S I L S.

G E N U S V.

C O B A L T.

C O B A L T U M *.

Fine ; brittle ; steel-like ; whitish grey ; not fusible.

* Cobalt has been denied to be a distinct Semi-Metal : but Brandt discovered, and Cronstedt confirmed the fact. Its glass, with the Phlogiston, makes a true Regulus.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. BLACK COBALT.							
Flat cakes	soft	heavy	dusty	DEAD BLACK	earthy, when broken	Germany	Cobaltum Calciforme Nigrum Cronstedt. for arsenic.
2. SLAGGY COBALT.							
Great lumps	very hard	heavy	cavernous	DARK GREY	glossy	Sweden	Minera Cobalti Vitrea Cronstedt.
3. EARTHY RED COBALT.							
Great masses	tender	heavy	dusty	DEEP RED	earth-like	Sweden	Cobaltum Arsenicale Terreum Cronstedt.
4. RUBY COBALT.							
Small masses	very hard	very heavy	glossy	FINE RED	star-like rays	Saxony	Cobaltum Arsenicale Crystallinum Cronstedt.

5. STEEL-GRAIN'D COBALT.							Cobaltum Chalybeatum Cronstedt.
Large lumps	hard	very heavy	rugged	IRON GREY	fine grain'd	Saxony	
6. COARSE-GRAIN'D COBALT.							Cobaltum Crassius Cronstedt.
Great masses	brittle	heavy	rough	BLACKISH	granulated	Saxony	
7. ARBORESCENT COBALT.							Cobaltum Dendriticum Cronstedt.
Irregular masses	brittle	light	twiggy	SILVERY	in form of dendrita	Saxony	
8. POLYHÆDRAL COBALT.							Cobaltum Polyhedrum Cronstedt.
Rounded lumps	hard	heavy	many planes	GREY	shining	Saxony	

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
9. PYRITINE COBALT.							
Rounded lumps	tender	heavy	botryoide	SILVERY	radiated, when broken	Norway	Cobaltum Radiatum Cronstedt.
10. WHITE POLYGONAL COBALT.							
Small lumps	hard	heavy	angulated	TIN COLOUR'D	bright	Sweden	Cobaltum Polygonum Cronstedt.
11. PALE GLASSY COBALT.							
Great lumps	very hard	heavy	irregular	PALE GREY	glassy	Sweden	Cobaltum Calciforme Album Cronstedt.
12. ORANGE COBALT.							
Great lumps	hard	heavy	angulated	REDDISH YELLOW	bright	Sweden	Cobaltum Glanz Cobalt. Cronstedt.

N A T I V E F O S S I L S.

G E N U S V.

N I K E L.

N I C C O L U M *.

Solid ; shining ; reddish ; crackly.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
I. SLAGGY NIKEL.							Niccolum Calciforme Vitrescens Crystall.
Vast lumps	hard	very heavy	rugged	ORANGE COLOUR'D	glassy	Sweden	

* Linnæus doubts the reality of Nikel, as a distinct Semi-Metal ; but the same arguments prove it, that prove the Cobalt such ; which he allows. The world is infinitely obliged to the Swedish miners for the accurate experiments they have made on Ores : we have a new idea of the metalline art from their labours,

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
2. SCALY NIKEL.							Niccolum Squamosum Cronstedt.
Small masses	hard	heavy	ridgy	DULL YELLOW	flaky	Sweden	
3. EARTHY NIKEL.							Niccolum Martiale Cronstedt.
Great cakes	brittle	heavy	dufty	DULL GREEN	clay-like	Sweden	
4. VITRIOLIC NIKEL.							Niccolum Vitriolatum Cronstedt. Cuprum Nikelum. L.
Small masses	tender	light	rugged	FINE GREEN	ochreous	Sweden	

NATIVE FOSSILS.

CLASS XII.

METALS.

METALLA.

Heaviest of all bodies; fusible; and ductile.

GENUS I.

GOLD.

AURUM.

Soft; yellow; heaviest; and most ductile of all metals.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. SOLID NATIVE GOLD.							Aurum Nativum Solidum. L.
Irregular lumps	tough	heavy	smooth	FULL YELLOW	massy	Peru, China, Africa	
2. PLATED NATIVE GOLD.							Aurum Nativum Membranaceum. L.
Flat masses	ductile	light in the mass	glossy	PALE YELLOW	flaky	Hungary, Peru	
3. SAND NATIVE GOLD.							Aurum Nativum Fluviorum Crassit.
Small lumps	tough	heavy	smooth	GOOD YELLOW	in granules	Africa	
4. ANGULATED NATIVE GOLD.							Aurum Nativum Crystallinum. L.
Small lumps	tough	heavy	polished	FINE YELLOW	in angulated lumps	Peru	

5. ARBORESCENT GOLD.

Branch'd
masses

tough

heavy

twiggy

PALE
YELLOW

in form of
dendritæ

Peru

Aurum
Dendritum
N.

6. MARCASITE GOLD ORE.

Rude lumps

hard

heavy

smooth

BRASSY
YELLOW

flaky

Sweden

Pyrites
Aureus
Crassus.

7. PALE GOLD ORE.

Large cakes

hard

very
heavy

rugged

SILVER
COLOUR'D

striated

Hungary

Aurum
Mercuriale
Crassus.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
8. GREY GOLD ORE.							Aurum Ferreum Cronstedt.
Small lumps	very hard	heavy	scaly	SILVERY GREY	glossy, when broke	Hungary	

Henkel was positive there could be no Gold found in Marcasites; and others have thought that in the nature of things, there could be no Gold Ore: but experiments shew there may be such; and some of the Marcasites are of the number. It were a ruinous error, to suppose all the Marcasites had Gold; but I have seen some that yield two ounces from the hundred weight in certain pieces; tho' little in others, appearing from all obvious characters to be the same.

NATIVE FOSSILS.

GENUS II.

SILVER.

ARGENTUM.

White; shining; very ductile; sonorous.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. FLAT NATIVE SILVER.							
Thin plates	soft	heavy	granulated	REDDISH WHITE	spread on the sur- face of stone	Potosi	Argentum Nativum Superficiale. L.
2. SPANGLED NATIVE SILVER.							
Small flakes	soft	heavy	bright	WHITE	in cracks of rocks	Potosi	Argentum Nativum Bracteatum. L.
3. GRANULATED NATIVE SILVER.							
Clusters of grains	soft	heavy	uneven	REDDISH WHITE	in cracks of rocks	Norway	Argentum Nativum Granulatum. L.
4. CAPILLARY NATIVE SILVER.							
Clusters of fine fibres	tender	heavy	thready	PURE WHITE	in cracks of rocks	Potosi	Argentum Nativum Capillare. L.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
5. ARBORESCENT NATIVE SILVER.							
In sprigs, in stone	soft	heavy	irregular	PURE WHITE	in masses of stone	Potosi	Argentum Nativum Dendroides, L.
6. CRYSTALLINE NATIVE SILVER.							
Square shoots	hard	heavy	polished	WHITE	in stone	Norway	Argentum Nativum Crystallinum, L.
7. HORNEY SILVER ORE.							
Rude masses	brittle	heavy	glossy	PEARLY YELLOWISH BROWN	in rocks	Norway	Argentum Corneum, L.
8. LEAFY SILVER ORE.							
Flat plates	hard	heavy	rugged	BLACKISH	on stones	Saxony	Argentum Vitreum Superficiale, L.

9. BRISTLY SILVER ORE.							Argentum Vitreum Subulare, L.
Short spikes	brittle	heavy	pointed	DARK GREY	in cracks of rocks	Sweden	
10. OCTAHEDRAL SILVER ORE.							Argentum Vitreum Crystallinum, L.
Rude octa- hedral lumps	brittle	very heavy	polished	BROWN	in cracks of rocks	Saxony	
11. FLAKY GREY SILVER ORE.							Argentum Rubrum Cinereascens, L.
Flat masses	brittle	heavy	rugged	DARK GREY	red, when powder'd	Hartz forest	
12. SOLID GREY SILVER ORE.							Argentum Rubrum Solidum Crassiusculum
Ill-shap'd lumps	hard	heavy	smooth	PALE GREY	red, when powder'd	Saxony	

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
13. GLANDULOSE RED SILVER ORE.							
Small masses	brittle	heavy	rugged	FINE RED	full of rounded masses	Germany	Argentum Rubrum Glandulosum. L.
14. RUBY SILVER ORE.							
Long sprigs	brittle	heavy	polished	RUBY RED	transparent	Saxony	Argentum Rubrum Crystallinum. L.
15. WHITE SILVER ORE.							
Rude lumps	brittle	heavy	rugged	BRIGHT SHINING WHITE	glittering	Hartz forest	Argentum Album. L.
16. MASSY GREY SILVER ORE.							
Great lumps	hard	heavy	rough	PALE GREY	shining	Sweden	Argentum Cincereum Compactum. L.

17. GLOSSY GREY SILVER ORE.

Small
clusters

brittle

heavy

shining

WHITISH

angulated
figures

Sweden

Argentum Album
Crystallinum.
L.

18. PYRITIC SILVER ORE.

Flatted
lumps

brittle

heavy

rugged

WHITE

striated

Sweden

Argentum
Arsenicale.
L.

19. SCALY BLENDE SILVER ORE.

Flatted
masses

brittle

heavy

tily

LEAD
COLOUR'D

shining

Sweden

Argentum Zincosum
Squamosum
Cronstedt.

20. BALL SILVER ORE.

Round
lumps

hard

heavy

striated

GREY

bright,
when
broken

Germany

Argentum Zincosum
Rotundatum
Cronstedt.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
21. BLACK BLENDE SILVER ORE.							
Rounded lumps	hard	heavy	scaly	BLACK	glossy, when broke	Sweden	Argentum Zincifum Nigrum Cronstedt.
22. STEEL-GRAIN'D SILVER ORE.							
Flatted lumps	hard	heavy	granulated	IRON GREY	glossy	Sweden	Argentum Cinereum. L.
23. SOOTY SILVER ORE.							
Ragged masses	tender	heavy	scaly	DEAD BLACK	opake	Sweden	Argentum Nigrum. L.

NATIVE FOSSILS.

GENUS III.

WHITE GOLD.

PLATINA.

White ; hard ; heaviest of Metals ; scarce ductile.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
I. NATIVE PLATINA*.							Platinum.
Small grains	hard	most heavy	rugged	WHITISH	opake	Rio da Pinto	L.

* I must express my doubts whether Platina be a Metal ; or the grains we see be native, tho' they are understood to be so : 'tis near forty years ago that we became first acquainted with it. Maregrave supposed it a recrement, after amalgamation of Gold, and he found Iron in it. Its weight is not to be accounted for this way ; but joined to what Maregrave has said, I may add this one, unthought of trial. Mr. Wolf, excellent in his chemical knowledge, made a preparation from this, to be dissolved and viewed in the act of recrystallizing before the microscope ; and thus it afforded Figures belonging to Quicksilver, and Iron ; and to no other substances in the world.

NATIVE FOS SILS.

GENUS IV.

TIN.

STANNUM*.

Blueish white; soft; malleable; crackling in bending, and but poorly ductile; fragrant.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. CRYSTALLINE TIN ORE.							
Angulated lumps	very hard	very heavy	polished	BLACKISH	crystalline	Cornwall, Saxony, and France †	Stannum Crystallinum. L.
2. TIN GRAINS.							
Small crystals	hard	very heavy	polished	BLACKISH BROWN	fatty on the surface	Cornwall	Stannum Granulatum. L.

3. TIN STONE.							Stannum Amorphum. L.
Large lumps	hard	heavy	smooth	DEEP BROWN	glossy	Cornwall	
4. SPAR TIN.							Stannum Spathaceum. L.
Round lumps	brittle	very heavy	streaky	PALE BROWN	glittering	Bohemia	

* It has been said, there was native Tin ; but I think it is an error. A Mass was offered to me at a great price in 1731, which was an Arsenical Pyrites. Since that time, the ingenious Mr. Borlace of Cornwall, thinks he has found native Tin : The account caused letters to pass between us ; in which, on my part, were proposed questions that would have determined the matter ; but I am sorry to say, the answers were not satisfactory.

+ It will seem strange that France is added here to the few places known to afford Tin ; but 'tis mentioned, not from conjecture, but the most perfect certainty.

N A T I V E F O S S I L S.

G E N U S V.

L E A D.

P L U M B U M.

Soft; blueish white; not sonorous; very ductile.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. MASSY NATIVE LEAD.							
Oblong lumps	soft	heavy	rugged	PALE GREY	covered with white powder	Saxony	Plumbum Nativum Solidum. W.
2. GRANULATED NATIVE LEAD.							
Round granules	tender	heavy	smooth	BLUEISH	dufty white	Germany	Plumbum Nativum Granulatum. L.

3. BUBBLY NATIVE LEAD.							Plumbum Nativum Papillare. L.
Small, rough lumps	soft	heavy	raised in bubbles	GREY	duffy white	Germany	
4. CUBIC LEAD ORE.							Plumbum Crystallinum Hexadrum. L.
Lumps of cubes	hard	heavy	scaly	WHITISH	six even sides	Germany	
5. OCTOHÆDRAL LEAD ORE.							Plumbum Crystallinum Octahædram. L.
Large lumps	hard	heavy	polished	LEAD COLOUR'D	eight un- equal sides	Saxony	
6. ALUMINOUS LEAD ORE.							Plumbum Crystallinum Tetradecahædram. L.
Small masses	tender	heavy	glossy	BLUEISH	fourteen sides	Germany	

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
7. TRUNCATED CUBIC LEAD ORE.							
Large clumps	hard	heavy	smooth	GREY	angles cut off	Sweden	Plumbum Crystallinum β . L.
8. TWENTY-SIX-SIDED LEAD ORE.							
Loose pieces	brittle	heavy	scaly	BLUEISH	polygonal	Germany	Plumbum Crystallinum α . L.
9. CUBIC SILVER LEAD ORE.							
Vast masses	brittle	very heavy	flaky	BLACKISH BLUE	shining mixt cubes	Germany	Plumbum Galena Cubica. L.
10. GRANULATED SILVER LEAD ORE.							
Great masses	very hard	very heavy	rugged	BLUE GRFY	rich in silver	Germany	Plumbum Galena β . L.

11. CONFUS'D SILVER LEAD ORE.

Rugged
lumps

hard

heavy

scaly

IRON GREY

glittering
confusedly

Germany

Plumbum
Galxna γ
L.

12. COMPACT LEAD ORE.

Vast masses

hard

very
heavy

smooth

BLUEISH

uniform

Germany

Plumbum
Compactum.
L.

13. DOTTED LEAD ORE.

Great masses

hard

heavy

uneven

BLUE GREY

shining in
dots

Germany

Plumbum
Pauperum.
L.

14. ANTIMONIATED LEAD ORE.

Great cakes

brittle

very
heavy

rugged

LIGHT
GREY

striated

Sweden

Plumbum
Stibiatum.
L.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
15. CLUSTER LEAD ORE.							
Rude lumps	brittle	heavy	streaky	BRIGHT GREY	cross tufts of fibres	Germany	Plumbum Basilinum. L.
16. GREEN LEAD ORE.							
Clusters of crystals	hard	very heavy	irregularly streak'd	GREEN, OR COLOUR- LESS	nitrous crystals	Bohemia	Plumbum Virens. L.
17. RUSSIAN LEAD ORE.							
Great masses of rhombs	hard	heavy	glossy	TAWNY	bright	Russia	Plumbum Rhombium. L.
18. SPARRY LEAD ORE.							
Vast cakes	brittle	heavy	flaky	WHITE	breaks in cubes	Germany	Plumbum Spatosum. L.

19. PELLUCID LEAD ORE.

Great lumps	hard	heavy	rugged	COLOUR- LESS	easily scraped	Germany
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Plumbum
Pellicidum.
L.

20. CERUSS LEAD ORE.

Thin cakes	brittle	light	dufty	WHITE	on lead ores	Sweden
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Plumbum
Caliciforme
Cronstedt.M E T A L S.

G E N U S VI.

C O P P E R.

C U P R U M.

Ruddy; tough; sonorous.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
1. MASSY NATIVE COPPER.							Cuprum Nativum Solidum.
Thick pieces	tough	heavy	rugged	REDDISH	solid	Virginia	
2. PLATED NATIVE COPPER.							Cuprum Nativum Superficiale. L.
Flat cakes	very ductile	heavy	uneven	REDDISH	dull	Germany	
3. FOLIACEOUS NATIVE COPPER.							Cuprum Nativum Foliaceum. L.
Irregular flakes	soft	heavy	uneven	RED	bright	Sweden	
4. EFFLORESCENT NATIVE COPPER.							Cuprum Nativum Efflorescens. L.
Flat, fibrous masses	tender	heavy	rugged	FINE RED	granulated	Germany	

5. CEMENT COPPER.

Rugged
cakes

brittle

light

rugged

DULL
REDDISH

botryoide

Germany

on iron.

Cuprum
Præcipitatum.
L.

6. OCTOHÆDRAL COPPER ORE.

Small lumps

hard

heavy

polished

REDDISH

trigonal
faces

East Indies

Cuprum
Crystallinum.
L.

7. RED GLASSY COPPER ORE.

Great masses

very hard

heavy

rugged

SCARLET

glassy
within

Norway

Cuprum Induratum
Rubrum
Cronstedt.

8. TAWNY GLASSY COPPER ORE.

Great cakes

hard

heavy

wrinkled

YELLOWISH
BROWNglassy
within

Sweden

Cuprum Induratum
Fulvum
Cronstedt.

F O R M.	H A R D N E S S.	W E I G H T.	S U R F A C E.	C O L O U R.	Q U A L I T I E S.	P L A C E.	U S E S.
9. GREY MARCASITIC COPPER ORE.							
Great lumps	hard	heavy	rugged	BRASSY BLACKISH GREY	striated	Germany	Cuprum Marcasiticum Griseum Cronstedt.
10. LIVER-COLOUR'D MARCASITIC COPPER ORE.							
Flat masses	very hard	heavy	coated	LIVER COLOUR'D	a blue crust	Sweden	Cuprum Marcasiticum Lazurum Cronstedt.
11. COMPACT BRASSY COPPER ORE.							
Great cakes	hard	heavy	smooth	GREENISH	breaks like brass	Germany	Pyrites Cupri Solidus Cronstedt.
12. STEEL-GRAIN'D BRASSY COPPER ORE.							
Flat masses	hard	very heavy	rough	BRONZ'D YELLOW	breaks like iron	Sweden	Pyrites Cupri Chalybiformis Cronstedt.

13. SANDY BRASSY COPPER ORE.

Great lumps | brittle | heavy

rugged

GREENISH
YELLOW

glittering

Sweden

Pyrites Cupri
Crassior
Cronstedt.

14. OCTOHÆDRAL BRASSY COPPER ORE.

Clusters of
crystals | shattery | heavy

angulated

YELLOW

octohæ-
dral
prisms

Sweden

Cuprum Crystalifatum
Octahædru
Cronstedt.

15. GOLDEN MARCASITIC COPPER ORE.

Great cakes | hard | heavy

scaly

PALE
YELLOW

glittering

Sweden

Pyrites Cupri Pallide
Flavus
Cronstedt.

16. BROWN MARCASITIC COPPER ORE.

Flat cakes | brittle | heavy

flaky

RUDDY
BROWN

bright

Germany

Pyrites Cupri
Hepaticus
Cronstedt.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
17. COMPACT GREY COPPER ORE.							
Rude lumps	tender	heavy	ethy	DARK GREY	cuts like black lead	Sweden	Minera Cupri Sulphurata Solida Cronstedt.
18. CUBIC GREY COPPER ORE.							
Flat masses	soft	heavy	smooth	IRON GREY	breaks in cubes	Sweden	Minera Cupri Sulphurata Cubica Cronstedt.
19. ARSENICAL COPPER ORE.							
Rude lumps	brittle	heavy	granulated	WHITE	shining	Saxony	Cuprum Album. L.
20. STONY COPPER ORE.							
Coarse masses	brittle	light	cavernous	RUDDY BROWN	coarse	Siberia	Cuprum Cotaceum. L.

21. GREEN SLATY COPPER ORE.							Cuprum Schistofum α . L.
Flat cakes	hard	heavy	plated	DEEP GREEN	splits in thick plates	Germany	
22. BLUE SLATY COPPER ORE.							Cuprum Schistofum β . L.
⌞ Vast cakes ⌚	tender	light	scaly	DEAD BLUE	splits in thin scales	Sweden	
23. LAZULAR COPPER ORE.							Cuprum Lazuli. L.
Large masses	very hard	heavy	smooth	FINE BLUE	white and gold spots	Asia	
24. ARMENINE COPPER ORE.							Cuprum Armenus. L.
Great lumps	hard	heavy	rugged	PALE BLUE	fine	Asia	

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
25. MALACHITE COPPER ORE.							
Rude lumps	firm	heavy	kidney'd	FINE PALE BLUE	striated within	Bohemia	Cuprum Malachites. L.
26. BLUE EARTHY COPPER ORE.							
Small cakes	brittle	light	dufty	GOOD BLUE	clay-like	Saxony	Ceruleum Montanum Cronstedt.
27. GREEN EARTHY COPPER ORE.							
Rough lumps	tender	light	uneven	GREEN	ochreous	Germany	Viride Montanum Cronstedt.
28. RED EARTHY COPPER ORE.							
Thin cakes	soft	light	botryoide	RED	crumbly	Bohemia	Rubrum Montanum Cronstedt.

29. BLACK EARTHY COPPER CRE.						
Small lumps	brittle	light	dufty	DEEP BLACK	crumbly	Sweden
30. COAL COPPER ORE.						
Great cakes	hard	heavy	flaky	BLACK	yellow spots	Germany

Nigrum
Montanum
Cronstedt.

Cuprum
Lithanthracum
Cronstedt.

M E T A L S.

G E N U S VII.

I R O N.

F E R R U M.

Dark blue grey; glittering; sonorous; only malleable when hot.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES	PLACE.	USES.
1. NATIVE IRON.							
Small, round lumps	hard	heavy	polished	RUDDY GREY	oily surface	Sweden	Ferrum Nudum. L.
2. RHOMBIC IRON ORE.							
Masses of rhombs	hard	heavy	smooth	RUDDY BROWN	bright, when broke	Sweden	Ferrum Tessulare. L.
3. CUBIC IRON ORE.							
Small cubes	tender	heavy	glossy	BROWN	regular cubes	Germany	Talcum Cubicum. W.
4. * POLYHÆDRAL IRON ORE.							
Rude lumps	hard	heavy	smooth	REDDISH	many faces	Sweden	Minera Ferri Polyhædra Cronstedt.

5. HONEYCOMB IRON ORE.							Minera Ferri Cellularis Cronstedt.
Great cakes	hard	heavy	cavernous	RUDDY BROWN	glossy	Sweden	
6. CLUSTER IRON ORE.							Ferrum Crystallinum, L.
Small, rude lumps	shattery	heavy	most irregular	GLOSSY, REDDISH	composed of small octohæ- dres	Sweden	
7. STEELY IRON ORE.							Ferrum Chalybeatum, L.
Vast cakes	very hard	very heavy	smooth	DEEP GREY	compact	Sweden	
8. BLACK DOTTED IRON ORE.							Ferrum Sidereum, L.
Great lumps	hard	heavy	rugged	BLACKISH	rhombic spots	Sweden	

• This Ore, when bedded in Limestone, acquires an addition of Sulphur, which it has in no other state. The excellent Cronstedt found this always: it happily comes in to the support of the doctrine of Sulphur, delivered in a preceding part of this work, under the article Spar.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
9. BLACK PLAIN IRON ORE.							
Vast masses	very hard	heavy	rude	DEEP BLACK	breaks in rhombs	Sweden	Ferrum Rhombicum. L.
10. LIVER IRON ORE.							
Great cakes	hard	heavy	even	LIVER COLOUR'D	breaks in rhombs	Sweden	Ferrum Hepaticum. L.
11. STEEL-GRAIN'D IRON ORE.							
Great masses	very hard	heavy	rugged	RUDDY BROWN	black, when powder'd	Sweden	Ferrum Selectum. L. finest of ores.
12. FINE-GRAIN'D IRON ORE.							
Vast lumps	very hard	very heavy	smooth	BLACK	sparkling	Sweden	Minera Ferri Retractoria Compacta Cronstedt.

13. GRANULATED IRON ORE.						
Great masses	hard	heavy	rough	RUDDY BLACK	coarse	Sweden
14. SANDY IRON ORE.						
Vast cakes	hard	heavy	rugged	BLACKISH GREY	particles like sand	Sweden
15. COMMON IRON ORE.						
Great cakes	hard	heavy	rough	BLACKISH	irregular particles	Germany
16. SOFT IRON ORE.						
Rugged lumps	hard	heavy	rugged	BLACK	spangles of marcasite	Sweden

Minera Ferri.
Retractoria Grossior
Cronstedt.

Ferrum
Arenosum.
L.

Ferrum
Commune.
L.

Ferrum
Molle.
L.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	U S E S.
17. TALCY IRON ORE.							
Vast rocks	hard	heavy	scaly	DARK GREY	white spangles	Sweden	Ferrum Talcifera. L.
18. MARBLE IRON ORE.							
Great masses	brittle	heavy	irregular	BROWN	black shining grains	Sweden	Ferrum Calcarium. L.
19. LINEATED IRON ORE.							
Great lumps	brittle	heavy	streaky	RUDDY BROWN	lines forming rhombs	Sweden	Ferrum Decussatum. L.
20. GREEN IRON ORE.							
Rude pieces	brittle	heavy	rugged	GREEN	specks of ruddy brown	Sweden	Ferrum Virens. L.

21. GRANITE IRON ORE.

Great masses tender heavy

scaly

GRANITE,
LIKE
BLACK AND
WHITEshining
black
scales

Sweden

Ferrum
Squamosum,
L.

22. FINE-GRAIN'D EMERY.

Vast cakes

hard

heavy

uneven

STEEL
COLOUR'Dreddish in
powderGreek
Islands.
Perufor polishing
gems.Ferrum
Smiris,
L.

23. HARSH EMERY.

Great lumps

hard

heavy

rugged

REDDISH
GREYcoarse
grain'd.

Sweden

Smiris
Chalybeatus
Cronstedt.

24. CUBIC EMERY.

Rude masses

shattery

heavy

most
irregular

REDDISH

glossy
cubes

Sweden

Smiris
Cubica
Cronstedt.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
25. FLAKY EMERY.							
Flat cakes	brittle	heavy	scaly	RUDDY GREY	thick scales	Sweden	Smir's Squamula Cronst. dt.
26. GLIMMERY IRON ORE.							
Vast lumps	brittle	light	rugged	DARK GREY	shining scales	Sweden	Ferrum Micaceum. L.
27. BLUE IRON ORE.							
Great cakes	hard	heavy	plated	STEEL GREY	blue scales	Sweden	Ferrum Ceruleum. L.
28. FIBROSE IRON ORE.							
Rude lumps	brittle	heavy	fibrose lines, rhombic forms	REDDISH GREY	breaks into rhombs	Sweden	Ferrum Striatum. L.

29. HONEYCOMB IRON ORE.							Ferrum Cellulosum. L.
Rugged lumps	brittle	heavy	regularly cavernous	IRON GREY	upright, bright flakes	Sweden	
30. RED BLOODSTONE*.							Ferrum Hematites α. L.
Rounded lumps	hard	heavy	raised in great glo- bules	FINE RED	glossy, striated within	forest of Dean	
31. BLACK BLOODSTONE.							Ferrum Hematites β. L.
Rounded masses	hard	heavy	botryoide	BLACK	shining	Germany	
32. BLUE LIMESTONE.							Ferrum Hematites γ. L.
Rugged masses	hard	heavy	raised in blunt cones	DEEP BLUE	glossy	Germany	

* The Emeries and Bloodstones are all Iron Ores. The Loadstone is an Iron Ore, which has the quality of attraction, nothing more.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
33. SOLID YELLOW BLOODSTONE.							
Rounded lumps	hard	heavy	rounded and smooth	PALE YELLOW	glossy	Sweden	Ferrum Hematites L.
34. FIBROUS YELLOW BLOODSTONE.							
Rough masses	hard	heavy	smooth	DEEP YELLOW	thick fibres	Bohemia	Ferrum Hematites Flavum Striatum Cronstedt.
35. KIDNEY BLOODSTONE.							
Cluster'd lumps	hard	heavy	botryoid	BLACK	rhombic, when broke	Sweden	Hæmatites Reniformis Nigrescens Cronstedt.
36. RADIATED BLACK BLOODSTONE.							
Masses of globes	hard	heavy	cluster'd round lumps	BLACK	thick striæ within	Sweden	Hæmatites Niger Radiatus Cronstedt.

37. FIGUR'D BLACK BLOODSTONE.							Hæmatites Niger Crystallifatus Cronstedt.
Rugged lumps	hard	heavy	rhombic figures	DEEP BLACK	crystaliz'd within	Sweden	
38. SOLID RED BLOODSTONE.							Hæmatites Ruber Solidus Cronstedt.
Vast lumps	hard	heavy	glossy	FINE RED	compact, as flint	Germany	
39. CRYSTALIZ'D RED BLOODSTONE.							Hæmatites Crystallizatus Cronstedt.
Small masses	hard	heavy	raised in ridges	DEEP RED	crystaliz'd within	Germany	
40. STAINING BLOODSTONE.							Ferrum Rubricolum. L.
Great lumps	soft	very heavy	greasy	GOOD RED	stains the hands	Germany	

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
41. SANDSTONE IRON ORE.							
Vast masses	brittle	heavy	rugged	BLACKING THE HANDS	full of sand	Sweden	Ferrum Arenosum, L.
42. REGENERATE IRON ORE.							
Vast masses	brittle	heavy	most uneven	RUSTY YELLOW	sandy, formed on iron	Sweden	Tophus Marinus, L.
43. GLOMERATE IRON ORE.							
Great lumps	shattery	heavy	rugged	DARK GREY	of loose octohæ- dral par- ticles	Sweden	Ferrum Glomeratum, L.
44. GREY IRON ORE.							
Great masses	brittle	heavy	rough	WHITISH GREY	breaks in rhombs	Sweden	Ferrum Spatiosum, L.

45. THE LOADSTONE.							Ferrum Magnes. L.
Great lumps	hard	heavy	rugged	IRON GREY	attracts iron, and has its poles	Germany, Italy	
46. SOFT MANGANESE*.							Magnesia Terrea Cronstedt.
Crumbly masses	soft	heavy	rugged	DEAD BLACK	friable	England	in glass works.
47. WHITE GLOBULAR MANGANESE.							Magnesia Alba Minerals Cronstedt.
Rounded masses	hard	heavy	botryoide	WHITISH	striated within	Norway	
48. PURPLE MANGANESE.							Magnesia Rubra Cronstedt.
Rude masses	hard	very heavy	streaky	DEEP RED	radiated within	Italy	

* The Manganeses are Iron Ores; but so poor, some have deny'd them their place among these bodies. The excellent Cronstedt is one of those; and he is a guide in these matters, one would wish to follow; but I have try'd them, and there is not one but has some Iron. Experiment is the test to which I would reduce all opinions; and that obliges me to place the Manganeses among the Iron Ores, tho' last among them.

F O R M.	H A R D N E S S.	W E I G H T.	S U R F A C E.	C O L O U R.	Q U A L I T I E S.	P L A C E.	U S E S.
49. S O L I D M A N G A N E S E.							
Great lumps	shattery	heavy	smooth	PURPLISH	metalline brightness	Germany	Magnesia Solida Cronstedt. in glass works.
50. S T E E L - G R A I N ' D M A N G A N E S E.							
Large cakes	hard	heavy	rugged	IRON GREY	bright, and shining	Sweden	Magnesia Chalybeata Cronstedt.
51. R A D I A T E D M A N G A N E S E.							
Great lumps	shattery	heavy	streaky	REDDISH	radiated within	Sweden	Magnesia Radiata Cronstedt.
52. K I D N E Y ' D M A N G A N E S E.							
Connected balls	brittle	heavy	kidney'd	REDDISH GREY	glossy	Sweden	Magnesia Crystalifata Cronstedt.

53. WOLFRAM MANGANESE.

Rude lumps	hard	heavy	streaky	IRON GREY	coarse fibres	Sweden
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F O S S I L S.



C L A S S XIII.

S L A G S.

S C O R I Æ.

Mineral bodies, calcin'd by subterranean fires.

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
1. ICELAND AGATE.							
Rough cakes	hard	heavy	undulated	GREENISH BLACK	femi- transpa- rent	Mount Hecla, and Ascension Island	Achates Islandicus Cronstedt.
2. RHINLAND MILSTONE.							
Vast masses	hard	heavy	cavernous	BLACK	glass-like	Germany	Lapis Molaris Rhenacus. L.
3. PEARL SLAG.							
Clusters of globules	hard	heavy	botryoide	GREENISH GREY	glassy	Isle of As- cension	Scoria Margaritacea Cronstedt.
4. ASHY SLAG.							
Granulated dust	tender	light	rough	GREY	crumbly	Vesuvius	Scoria Pulverulenta Cronstedt.

5. LAVA SLAG.				MIX'D OF ALL CO- LOURS	glassy	Vesuvius	Scoria Lava, H.
Rude lumps	hard	heavy	rugged				
6. COMMON GREY PUMICE.				OLIVE GREY	of bristly fibres within	Vesuvius, Ætna	Pumex Vulcani. L.
Irregular lumps	brittle	light	cavernous				
7. BLACK PUMICE.				BLACK	sponge- like.	Vesuvius	Pumex Niger Cronstedt.
Vast cakes	brittle	light	rugged				
8. IRON PUMICE.				PALE REDDISH	spongy	Volcanos, and Iron Forges	Pumex Ferri. L.
Flat masses	brittle	heavy	botryoide				

FORM.	HARDNESS.	WEIGHT.	SURFACE.	COLOUR.	QUALITIES.	PLACE.	USES.
9. COPPER PUMICE.							
Great masses	brittle	light	frothy	RED	spongy	Isle of Ascension	Pumex Cupri. L.

These are a sort of additional substances to a Fossil catalogue; but they ought to have a place in a cabinet: indeed the Lavas of Vesuvius might make a cabinet alone: but Philosophy must acknowledge it knows little of them.

We should wish to be acquainted with the history of the Fossils, of which they are calcinations, in their native and original state, and that way to be able to refer them to the bodies to which they belong; but of this we have no hope. We know not what were the Fossils of Vesuvius before they were burnt; nor can all the furnaces of chemistry produce such substances as these volcanic fires of nature.

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